

DRAFT REGISTRATION REPORT

Part B

Section 3

Efficacy Data and Information

Concise summary

Product code: A12916B

Product name: Amistar Max

Chemical active substances:

azoxystrobin, 93.5 g/L

folpet, 500 g/L

NATIONAL ADDENDUM – Poland

(to support label claims in cereals according to the national
Polish data requirements)

Applicant: Syngenta

Submission date: July 2024

MS Assessment: 20/08/2024

Version history

When	What
August 2024	MS assessment

Table of Contents

3	Efficacy Data and Information (including Value Data) on the Plant Protection Product (KCP 6).....	5
3.1	Summary and conclusions of applicant on Section 3: Efficacy (KCP 6)	5
3.2	Efficacy data (KCP 6)	10
3.2.1	Preliminary tests (KCP 6.1)	22
3.2.2	Minimum effective dose tests (KCP 6.2).....	22
3.2.3	Efficacy tests (KCP 6.2)	22
3.2.3.1	Efficacy against target diseases in wheat.....	28
3.2.3.2	Efficacy against target foliar diseases in spelt	60
3.2.3.3	Efficacy against target foliar diseases in triticale	61
3.2.3.4	Efficacy against target foliar diseases in barley.....	100
3.2.3.5	Efficacy against target foliar diseases in rye.....	145
3.2.3.6	Efficacy against target foliar diseases in oats	180
3.2.3.7	Efficacy against target foliar diseases in forage grasses for seed production	206
3.2.3.8	Efficacy against target foliar diseases in grasses (ornamental and for seed production).....	206
3.2.3.9	Efficacy against target diseases in Miscanthus (energy crop)	207
3.2.3.10	Summary and conclusions on efficacy	207
3.3	Information on the occurrence or possible occurrence of the development of resistance (KCP 6.3)	208
3.4	Adverse effects on treated crops (KCP 6.4).....	208
3.4.1	Phytotoxicity to host crop (KCP 6.4.1).....	212
3.4.1.1	Phytotoxicity in wheat	216
3.4.1.2	Phytotoxicity in triticale.....	228
3.4.1.3	Phytotoxicity in barley	234
3.4.1.4	Phytotoxicity in rye.....	245
3.4.1.5	Phytotoxicity in oats	256
3.4.1.6	Phytotoxicity in grasses (ornamental and for seed production).....	264
3.4.1.7	Phytotoxicity in Miscanthus (energy crop).....	264
3.4.1.8	Phytotoxicity in forage grasses for seed production	265
3.4.2	Effect on the yield of treated plants or plant product (KCP 6.4.2)	266
3.4.3	Effects on the quality of plants or plant products (KCP 6.4.3).....	266
3.4.4	Effects on transformation processes (KCP 6.4.4).....	266
3.4.5	Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)	266
3.4.6	Summary and conclusions on adverse effects on the treated crop.....	266
3.5	Observations on other undesirable or unintended side-effects (KCP 6.5)	268
3.5.1	Impact on succeeding crops (KCP 6.5.1).....	268
3.5.2	Impact on other plants including adjacent crops (KCP 6.5.2)	269
3.5.3	Effects on beneficial and other non-target organisms (KCP 6.5.3)	270
3.5.4	Summary and conclusion	270
3.6	Other/special studies	270
3.7	List of test facilities including the corresponding certificates	271

Appendix 1	Lists of data considered in support of the evaluation	275
	Efficacy trials from 2020-2023	418
Appendix 2	Summary of data on trial sites and application details per use.....	428
	Wheat efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones	428
	Barley efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones	428
	Triticale efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones	432
	Rye efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones	435
	Oats efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones	438
Appendix 3	Comparability of conditions	549

3 Efficacy Data and Information (including Value Data) on the Plant Protection Product (KCP 6)

3.1 Summary and conclusions of applicant on Section 3: Efficacy (KCP 6)

Abstract

According to the results presented, the proposed dose of 1.5 l/ha of A12916B (Amistar Max) after a single application was effective in controlling the diseases:

- **Winter wheat:** *Zymoseptoria tritici*, *Puccinia striiformis*, *Puccinia recondita*
- **Spring wheat:** *Puccinia striiformis*
- **Winter triticale:** *Zymoseptoria tritici*, *Puccinia striiformis*, *Puccinia recondita*, *Erysiphe graminis* (moderate control), *Rhynchosporium secalis* (moderate control)
- **Winter barley:** *Pyrenophora teres*, *Puccinia hordei*, *Rhynchosporium secalis* (moderate control), *Ramularia collo-cygni* (moderate control), *Erysiphe graminis* (moderate control)
- **Spring barley:** *Pyrenophora teres*, *Puccinia hordei*, *Ramularia collo-cygni* (moderate control), *Erysiphe graminis*
- **Winter rye:** *Puccinia recondita*, *Rhynchosporium secalis*, *Erysiphe graminis* (moderate control)
- **Spring rye:** *Rhynchosporium secalis*
- **Oats:** *Puccinia coronata*

There are exceptions for *Puccinia coronata* and *Erysiphe graminis* in oats. The use against *Puccinia coronata* is proposed for conditional approval. A specific claim for the control of *Erysiphe graminis* has been refused. The data submitted to support this claim demonstrated insufficient efficacy and was based on an inadequate number of trials.

It should be noted that A12916B is the only product in Poland that contains the azoxystrobin/folpet mixture. Although the data generally demonstrated only moderate efficacy against *Rhynchosporium secalis*, *Erysiphe graminis*, and *Ramularia collo-cygni*, this combination of active substances appears to be an important tool in disease resistance management for cereals in Poland.

The applicant has not provided a discussion on the risks to succeeding crops, adjacent crops, beneficial organisms, or non-target arthropods. Since the product has already been assessed for use in cereals, the existing risk assessment remains valid for these areas. Therefore, it can be concluded that A12916B is not expected to have adverse effects on succeeding crops, adjacent crops, beneficial organisms, or non-target arthropods when applied according to the current label claims.

Table 3.1-1: Acceptability of intended uses (and respective fall-back GAPs, if applicable)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situation (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks: e.g. g safener/synergist per ha (f)	MS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L A12916B / ha a) max. rate per appl. b) max. total rate per crop/season	g a.s./ha AZT + FPT a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
Zonal uses (field or outdoor uses, certain types of protected crops)														
25	Poland	Barley, winter & spring [HORVX]	F	<i>Pyrenophora teres</i> [PYRNTE]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
26	Poland	Barley, winter & spring [HORVX]	F	<i>Puccinia hordei</i> [PUCCHD]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
27	Poland	Barley, winter [HORVW]	F	<i>Rhynchosporium secalis</i> [RHYNSE]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
28	Poland	Barley, winter & spring [HORVX]	F	<i>Ramularia collo-cygni</i> [RAMUCC]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
29	Poland	Barley, winter & spring [HORVX]	F	<i>Erysiphe graminis</i> [ERYSGR]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
55	Poland	Oat, spring [AVESP]	F	<i>Puccinia coronata</i> [PUCCCO]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		R
	Poland	Oat, spring [AVESP]	F	<i>Erysiphe graminis</i> [ERYSGR]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
79	Poland	Wheat, winter [TRZAW]	F	<i>Zymoseptoria tritici</i> [SEPTTR]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
80	Poland	Wheat, winter & spring [TRZSS]	F	<i>Puccinia striiformis</i> [PUCCST]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
81	Poland	Wheat, winter [TRZAW]	F	<i>Puccinia recondita</i> [PUCCRE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situation (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks: e.g. g safener/synergist per ha (f)	MS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L A12916B / ha a) max. rate per appl. b) max. total rate per crop/season	g a.s./ha AZT + FPT a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
106	Poland	Rye, winter [SECCW]	F	<i>Puccinia recondita</i> [PUCCRE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
107	Poland	Rye, winter [SECCW]	F	<i>Rhynchosporium secalis</i> [RHYNSE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
108	Poland	Rye, winter [SECCW]	F	<i>Erysiphe graminis</i> [ERYSGR]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
173	Poland	Rye, spring [SECCS]	F	<i>Rhynchosporium secalis</i> [RHYNSE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
135	Poland	Triticale, winter [TTLWI]	F	<i>Septoria tritici</i> [SEPTTR]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
136	Poland	Triticale, winter [TTLWI]	F	<i>Puccinia striiformis</i> [PUCCST]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
137	Poland	Triticale, winter [TTLWI]	F	<i>Puccinia recondita</i> [PUCCRE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
138	Poland	Triticale, winter [TTLWI]	F	<i>Erysiphe graminis</i> [ERYSGR]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
	Poland	Triticale, winter [TTLWI]	F	<i>Rhynchosporium secalis</i> [RHYNSE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
Interzonal uses (use as seed treatment, in greenhouses (or other closed places of plant production), as post-harvest treatment or for treatment of empty storage rooms)														
	None													
Minor uses according to Article 51 (zonal uses)														
172	Poland	Rye, spring [SECCS]	F	<i>Puccinia recondita</i> [PUCCRE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
174	Poland	Rye, spring [SECCS]	F	<i>Erysiphe graminis</i> [ERYSGR]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situation (crop destination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled (additionally: developmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks: e.g. g safener/synergist per ha (f)	MS Conclusion (efficacy)
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	L A12916B / ha a) max. rate per appl. b) max. total rate per crop/season	g a.s./ha AZT + FPT a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
176	Poland	Durum wheat [TRZDX]	F	<i>Zymoseptoria tritici</i> [SEPTTR]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
177	Poland	Durum wheat [TRZDX]	F	<i>Puccinia striiformis</i> [PUCCST]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
178	Poland	Durum wheat [TRZDX]	F	<i>Puccinia recondita</i> [PUCCRE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
	Poland	Spelt wheat, winter & spring [TRZSP]	F	<i>Zymoseptoria tritici</i> [SEPTTR]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
	Poland	Spelt wheat, winter & spring [TRZSP]	F	<i>Puccinia striiformis</i> [PUCCST]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
	Poland	Spelt wheat, winter & spring [TRZSP]	F	<i>Puccinia recondita</i> [PUCCRE]	Foliar spray	BBCH 30-69	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
179	Poland	Grasses (ornamental & for seed production)	F	<i>Septoria spp</i> [SEPTSP]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
180	Poland	Grasses (ornamental & for seed production)	F	<i>Puccinia spp</i> [PUCCSP]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
181	Poland	Energy crop - Miskanthus	F	<i>Septoria spp</i> [SEPTSP]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
182	Poland	Energy crop - Miskanthus	F	<i>Puccinia spp</i> [PUCCSP]	Foliar spray	BBCH 30-59	a) 1 b) 1	NA	a) 1.5 b) 1.5	a) 140 + 750 b) 140 + 750	100 - 400	N/A		
Minor uses according to Article 51 (interzonal uses)														
	None													

* Use number(s) in accordance with the list of all intended GAPS in Part B, Section 0 should be given in column 1.

** F: professional field use, Fn: non-professional field use, Fpn: professional and non-professional field use, G: professional greenhouse use, Gn: non-professional greenhouse use, Gpn: professional and non-professional greenhouse use, I: indoor application

Column 15: zRMS conclusion.

A	Acceptable
R	Acceptable with further restriction
C	To be confirmed by cMS
N	Not acceptable / evaluation not possible
n.r.	Not relevant for section 3

3.2 Efficacy data (KCP 6)

Introduction

A12916B is a suspension concentrate (SC) formulation containing 93.5 g/L azoxystrobin and 500 g/L folpet intended for the control of foliar diseases in winter and spring cereal crops.

This National Addendum was prepared to support the use of A12916B (Amistar Max) at 1.5 L/ha following one application against major uses:

- *Zymoseptoria tritici*, *Puccinia striiformis*, *Puccinia recondita* in winter wheat,
- *Puccinia striiformis* in spring wheat,
- *Zymoseptoria tritici*, *Puccinia striiformis*, *Puccinia recondita*, *Erysiphe graminis*, *Rhynchosporium secalis* in winter triticale,
- *Pyrenophora teres*, *Puccinia hordei*, *Rhynchosporium secalis*, *Ramularia collo-cygni*, *Erysiphe graminis* in winter barley,
- *Pyrenophora teres*, *Puccinia hordei*, *Ramularia collo-cygni*, *Erysiphe graminis* in spring barley,
- *Puccinia recondita*, *Rhynchosporium secalis*, *Erysiphe graminis* in winter rye,
- *Rhynchosporium secalis* in spring rye,
- *Puccinia coronata*, *Erysiphe graminis* in oats in Poland.

Application also contains a range of minor crops & minor uses (Art. 51):

- *Puccinia recondita*, *Erysiphe graminis* in spring rye,
- *Zymoseptoria tritici*, *Puccinia striiformis*, *Puccinia recondita* in winter/spring durum wheat,
- *Zymoseptoria tritici*, *Puccinia striiformis*, *Puccinia recondita* in winter/spring spelt wheat,
- *Puccinia spp.*, *Septoria spp.* in grasses (ornamental & for seed production),
- *Puccinia spp.*, *Septoria spp.* in *Miscanthus* spp. (energy crop).

This document complements the Biological Assessment Dossier (ref. Syngenta File No. VV-846678, June 2020) and summarizes the information related to the above-mentioned fungal pathogens in winter and spring cereal crops.

The data presented in this document fully support the registration of A12916B for the control of above-mentioned fungal pathogens in winter and spring cereal crops.

The intended member states for an authorisation of the product for these uses are:

Central regulatory zone: -

National Submission: Poland.

Description of active substances

Azoxystrobin

Azoxystrobin, first introduced in 1998, is a systemic and translaminar, broad-spectrum fungicide belonging to the class of methoxy-acrylates from the strobilurin chemical family. It exerts its fungicidal activity by inhibiting mitochondrial respiration in fungi.

Folpet

Folpet belongs to the chemical group of phthalimides and has been widely used in Europe and elsewhere in the world for over 50 years as a protectant contact fungicide for control of a wide range of diseases on different crops.

Mode of action

Azoxystrobin

Azoxystrobin belongs to Quinone outside inhibitor (QoI) fungicides in Mode of Action group C3 (complex III: cytochrome bc1 (ubiquinol oxidase) at Qo site *cyt b gene*), which are a high risk group to the development of fungicide resistance. QoIs disrupt the mitochondrial respiration of fungi by binding to the Quinol outer binding site of the cytochrome bc1 complex. The subsequent interference with electron flow through the electron transport chain, which has been demonstrated using isolated fungal mitochondria, causes the inhibition of ATP formation, a fundamental biochemical process in all classes of fungi. Deprivation of ATP hinders cellular processes requiring energy, such as spore germination and mycelial growth. The inhibition of spore germination is a characteristic property of azoxystrobin. Azoxystrobin acts directly at the active site and all the metabolites that have been examined show lower activity on a screen for mitochondrial electron transport inhibition than azoxystrobin itself.

Azoxystrobin is readily absorbed by plant foliage and systemic movement following uptake leads to an even distribution of azoxystrobin throughout the leaves with no evidence for accumulation at either leaf tips or margins. When applied to the base of a leaf or stem it can be demonstrated by both autoradiography and disease bioassay to move from the site of application acropetally (towards the tip) but not basipetally (towards the base); this indicates that the compound moves in the xylem but not in the phloem tissue. As a broad spectrum systemic, translaminar, preventative and protectant fungicide, azoxystrobin inhibits spore germination and development and mycelial growth and sporulation and it is recommended that applications begin when conditions are favourable for disease infection and/or at the first signs of infection. Azoxystrobin will give up to 8 weeks protection against target diseases, depending on the extent of new growth following application.

Folpet

Folpet is classified by the Fungicide Resistance Action Committee (FRAC) in Mode of Action group M4 (multi-site contact activity), for which there has been no evidence of resistance having developed following many years of use and the risk of resistance is low. The non-specific mode of action of folpet involves denaturation of fungal proteins through a reaction with thiol groups on proteins including the glutathione system and the effects are observed as the inhibition of normal cell division in a broad spectrum of micro-organisms.

Table 3.2-1: Details of the active substances

Active substance	azoxystrobin	folpet
Concentration (Unit: g/kg or g/L...)	93.5 g/L	500 g/L
Chemical group	Methoxy-acrylates	Phthalimides
Mode of action	Respiration inhibitor (QoI fungicide)	multi-site contact activity
Plant translocation	Systemic, translaminar	contact
Biological action	Protectant, with curative and eradicant properties	Preventive contact fungicide

Description of the plant protection product

A12916B is a suspension concentrate (SC) formulation containing 93.5 g/L azoxystrobin and 500 g/L folpet intended for the control of foliar diseases in winter and spring cereal crops.

In all cereal crops (wheat, barley, oats, rye, triticale), the maximum proposed rate of A12916B is 1.5 litre per hectare (L/ha) with a maximum of one application per season, which will deliver 140.25 g of azoxystrobin and 750 g of folpet per hectare.

In order to support the proposed uses of A12916B, data are presented from trials conducted over six seasons (2018-2019 and 2020-2023) in countries that are considered acceptable for plant protection product performance justification in Poland, i.e. efficacy test data are provided from Maritime climatic zone (Germany, Czech Republic), North-east climatic zone (Poland, Latvia, Lithuania, Estonia) and South-east climatic zone (Slovakia).

The combination of azoxystrobin and folpet in A12916B will provide broad spectrum control against the various target foliar diseases with good crop safety.

Table 3.2-2: Simplified table of requested uses for A12916B (for Poland)

Uses		Member State	Requested rate(s)	Comments
Crop(s)	Target(s)			
Requested uses - major				
Winter wheat (TRZAW)	<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUC CST) <i>Puccinia recondita</i> (PUC CRE)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Spring wheat (TRZAS)	<i>Puccinia striiformis</i> (PUC CST)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Winter barley (HORVW)	<i>Pyrenophora teres</i> (PYRNTE) <i>Puccinia hordei</i> (PUC CHD) <i>Rhynchosporium secalis</i> (RHYNSE) <i>Ramularia collo-cygni</i> (RAMUCC) <i>Blumeria graminis</i> (ERYSGR)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water

Spring barley (HORVS)	<i>Pyrenophora teres</i> (PYRNTE) <i>Puccinia hordei</i> (PUCCHD) <i>Ramularia collo-cygni</i> (RAMUCC) <i>Blumeria graminis</i> (ERYSGR)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Winter triticale (TTLWI)	<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUCCST) <i>Puccinia recondita</i> (PUCCRE) <i>Blumeria graminis</i> (ERYSGR)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Winter rye (SECCW)	<i>Puccinia recondita</i> (PUCCRE) <i>Rhynchosporium secalis</i> (RHYNSE) <i>Blumeria graminis</i> (ERYSGR)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Spring oats (AVESP)	<i>Puccinia recondita</i> (PUCCCO) <i>Blumeria graminis</i> (ERYSGR)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Requested uses - minor				
Spring rye (SECCS)	<i>Puccinia recondita</i> (PUCCRE) <i>Rhynchosporium secalis</i> (RHYNSE) <i>Blumeria graminis</i> (ERYSGR)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Winter/spring durum wheat (TRZDW, TRZDS)	<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUCCST) <i>Puccinia recondita</i> (PUCCRE)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Winter/spring spelt wheat (TRZSP)	<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUCCST) <i>Puccinia recondita</i> (PUCCRE)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Grasses (ornamental & for seed production)	<i>Septoria</i> spp. (SEPTSP) <i>Puccinia</i> spp. (PUCCSP)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water
Energy crop - Miscanthus	<i>Septoria</i> spp. (SEPTSP) <i>Puccinia</i> spp. (PUCCSP)	Poland	1.5 L/ha	Maximum 1 application per season. Application volume range of 100-400 L/ha water

Further details are in the table “All intended uses” in Part B - Section 0.

Description of the target pests

As a group, cereals compromise one of the most important and extensively grown crop types throughout the EU, with all countries producing a combination of cereal crops, and are the third biggest agricultural sector after vegetables and horticultural crop and dairy sectors. Across the whole of the EU, cereals

account for approximately 11% of the total value of agricultural production and for those cereals relevant to this submission the amount of this total is 44% for common wheat and spelt, 19% for barley, 3% for oats and 2% for rye and winter cereal mixtures. In terms of cereal production volumes, France, Germany and Poland account for 50% of the EU total. Of the total production, the end uses of cereals produced in the EU are approximately two-thirds for animal feed and one-third for human consumption, although processing for non-food or feed uses is increasing¹. Main human consumption uses are bread and pasta production for wheat and in brewing for barley.

Overall, target foliar fungal diseases relevant to this submission cause substantial reductions in yield and quality in cereal crops across the EU and the availability of fungicides to effectively control these diseases is paramount to maintaining and increasing production to meet demand.

Table 3.2-3: Glossary of pests mentioned in the dossier

EPPO code	Scientific name	Common name
ERYSGR	<i>Blumeria graminis</i> (<i>sin. Erysiphe graminis</i>)	Powdery mildew of cereals
PUCCCO	<i>Puccinia coronata</i>	Crown rust
PUCCHD	<i>Puccinia hordei</i>	Brown rust of barley
PUCCRE	<i>Puccinia recondita</i>	Brown rust of cereals
PUCCST, PUCCSI	<i>Puccinia striiformis</i> f. sp. <i>tritici</i>	Yellow rust of wheat
PUCCSP	<i>Puccinia</i> spp.	Rust species
PYRNTE	<i>Pyrenophora teres</i>	Net blotch
RAMUCC	<i>Ramularia collo-cygni</i>	Ramularia leaf spot
RHYNSE	<i>Rhynchosporium secalis</i>	Leaf blotch
SEPTTR	<i>Zymoseptoria tritici</i> (<i>sin. Septoria tritici</i>)	Leaf spot
SEPTSP	<i>Septoria</i> spp.	Septoria species

¹ European Parliament briefing. The EU cereals sector: Main features, challenges and prospects. 2019

Table 3.2-4: Major / minor status of intended uses (for Poland)

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	Minor		Major	Minor
Winter wheat (TRZAW)	x		<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUCCST) <i>Puccinia recondita</i> (PUCCRE)	x	
Spring wheat (TRZAS)	x		<i>Puccinia striiformis</i> (PUCCST)	x	
Winter barley (HORVW)	x		<i>Pyrenophora teres</i> (PYRNTE) <i>Puccinia hordei</i> (PUCCHD) <i>Rhynchosporium secalis</i> (RHYNSE) <i>Ramularia collo-cygni</i> (RAMUCC) <i>Blumeria graminis</i> (ERYSGR)	x	
Spring barley (HORVS)	x		<i>Pyrenophora teres</i> (PYRNTE) <i>Puccinia hordei</i> (PUCCHD) <i>Ramularia collo-cygni</i> (RAMUCC) <i>Blumeria graminis</i> (ERYSGR)	x	
Winter triticale (TTLWI)	x		<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUCCST) <i>Puccinia recondita</i> (PUCCRE) <i>Blumeria graminis</i> (ERYSGR)	x	
Winter rye (SECCW)	x		<i>Puccinia recondita</i> (PUCCRE) <i>Rhynchosporium secalis</i> (RHYNSE) <i>Blumeria graminis</i> (ERYSGR)	x	
Spring oats (AVESP)	x		<i>Puccinia recondita</i> (PUCCCO) <i>Blumeria graminis</i> (ERYSGR)	x	
Spring rye (SECCS)		x	<i>Puccinia recondita</i> (PUCCRE) <i>Rhynchosporium secalis</i> (RHYNSE) <i>Blumeria graminis</i> (ERYSGR)		x
Winter/spring durum wheat (TRZDW, TRZDS)		x	<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUCCST) <i>Puccinia recondita</i> (PUCCRE)		x
Winter/spring spelt wheat (TRZSP)		x	<i>Zymoseptoria tritici</i> (SEPTTR) <i>Puccinia striiformis</i> (PUCCST) <i>Puccinia recondita</i> (PUCCRE)		x
Grasses (ornamental & for seed production)		x	<i>Septoria</i> spp. (SEPTSP) <i>Puccinia</i> spp. (PUCCSP)		x
Energy crop - Miscanthus		x	<i>Septoria</i> spp. (SEPTSP) <i>Puccinia</i> spp. (PUCCSP)		x

Compliance with the Uniform Principles

This overall assessment has been performed according to the uniform principles.

The experiments data summarised in this document were carried out by Syngenta organisations, contractor companies and Official Research institutes, all of which follow the EPPO standards and are officially recognized by the competent authorities to carry out field registration trials in accordance with the principles of Good Experimental Practice (GEP).

All the trials were conducted according to GEP and EPPO-guidelines/-principles and the specifications of the trial plan. All assessments and applications were done according to instructions of the protocol unless otherwise specified.

Information on trials submitted (3.1 Efficacy data)

Table 3.2-5: Presentation of trials (efficacy trials)

Crop(s)	Target(s)	Country	Years	Type of trial*	Number of trials			GEP, non-GEP, official**
					MAR zone	NE zone	SE zone	
Winter wheat (TRZAW)	<i>Zymoseptoria tritici</i> (SEPTTR)	Poland	2018 2019	E	-	6 4	-	GEP
	TOTAL:					10		
	TOTAL:		10					
	<i>Puccinia striiformis</i> (PUCCST)	Germany	2019	E	2	-	-	GEP
		Poland	2018 2019	E	-	1 1	-	GEP
		Latvia	2019	E	-	1	-	GEP
	TOTAL:				2	3		
	TOTAL:		5					
	<i>Puccinia recondita</i> (PUCCRE)	Poland	2018 2019	E	-	5 2	-	GEP
		Latvia	2019	E	-	2	-	GEP
	TOTAL:					9		
	TOTAL:		9					
Spring wheat (TRZAS)	<i>Zymoseptoria tritici</i> (SEPTTR)	-	-	-	-	-	-	-
	<i>Puccinia striiformis</i> (PUCCST)	Latvia	2018	E	-	1	-	GEP
	TOTAL:		1					
	<i>Puccinia recondita</i> (PUCCRE)	-	-	-	-	-	-	-
Winter barley (HORVW)	<i>Pyrenophora teres</i> (PYRNTE)	Poland	2018 2019	E	-	5 5	-	GEP
	TOTAL:					10		
	TOTAL:		10					
	<i>Puccinia hordei</i> (PUCCHD)	Germany	2018 2019 2020	E	1 2 2	-	-	GEP
		Poland	2019	E	-	3	-	GEP
	TOTAL:				5	3		
	TOTAL:		8					
	<i>Rhynchosporium secalis</i> (RHYNSE)	Germany	2018 2020 2021	E	3 1 2	-	-	GEP
		Poland	2018 2019	E	-	2 1	-	GEP
	TOTAL:				6	3		

Crop(s)	Target(s)	Country	Years	Type of trial*	Number of trials			GEP, non-GEP, official**
					MAR zone	NE zone	SE zone	
	TOTAL:		9					
	Ramularia collo-cygni (RAMUCC)	Germany	2019 2020	E	3 1	-	-	GEP
	TOTAL:				4			
	TOTAL:		4					
	Blumeria graminis (ERYSGR)	Germany	2020	E	1	-	-	GEP
		Poland	2018	E	-	3	-	GEP
		Lithuania	2019	E	-	2	-	GEP
	TOTAL:				1	5		
	TOTAL:		6					
	Spring barley (HORVS)	Pyrenophora teres (PYRNTE)	Germany	2021	E	1	-	-
Latvia			2018 2019	E	-	3 1	-	GEP
Lithuania			2018 2019	E	-	1 2	-	GEP
Czech Republic			2022 2023	E	1 1	-	-	GEP
Estonia			2018	E		1	-	GEP
TOTAL:				3	8			
TOTAL:		11						
Puccinia hordei (PUCCHD)		Czech Republic	2023	E	1	-	-	GEP
		Poland	2018 2019	E	-	2 1	-	GEP
		Latvia	2018 2019	E	-	2 1	-	GEP
		Lithuania	2018	E	-	1	-	GEP
TOTAL:				1	7			
TOTAL:		8						
Rhynchosporium secalis (RHYNSE)		-	-	-	-	-	-	-
Ramularia collo-cygni (RAMUCC)		Czech Republic	2022 2023	E	1 2	-	-	GEP
		Poland	2018	E	-	1	-	GEP
TOTAL:				3	1			
TOTAL:		4						
Blumeria graminis (ERYSGR)		Poland	2018	E	-	1	-	GEP
		Czech Republic	2023	E	3	-	-	GEP
		Lithuania	2018	E	-	2	-	GEP
		Slovakia	2022	E	-		2	GEP
TOTAL:				3	3	2		
TOTAL:		8						

Crop(s)	Target(s)	Country	Years	Type of trial*	Number of trials			GEP, non-GEP, official**
					MAR zone	NE zone	SE zone	
Winter triticales (TTLWI)	<i>Zymoseptoria tritici</i> (SEPTTR)	Germany	2019 2021	E	4 2	-	-	GEP
		Poland	2019 2020 2021	E	-	2 2 5	-	GEP
	TOTAL:				6	9		
	TOTAL:		15					
	<i>Puccinia striiformis</i> (PUCCST)	Germany	2020 2021	E	1 1	-	-	GEP
		Poland	2021	E	-	1	-	GEP
	TOTAL:				2	1		
	TOTAL:		3					
	<i>Puccinia recondita</i> (PUCCRE)	Germany	2019	E	3	-	-	GEP
	TOTAL:		3					
	<i>Blumeria graminis</i> (ERYSGR)	Germany	2019 2021	E	1 1	-	-	GEP
		Poland	2019 2021	E	-	1 2	-	GEP
	TOTAL:				2	3		
	TOTAL:		5					
	<i>Rhynchosporium secalis</i> (RHYNSE)	Germany	2020	E	1	-	-	GEP
	TOTAL:		1					
Winter rye (SECCW)	<i>Puccinia recondita</i> (PUCCRE)	Germany	2018 2019 2020	E	1 3 2	-	-	GEP
		Poland	2018 2019 2020 2021	E	-	1 4 1 1	-	GEP
	TOTAL:				6	7		
	TOTAL:		13					
	<i>Rhynchosporium secalis</i> (RHYNSE)	Germany	2018 2019 2020 2021	E	2 2 2 4	-	-	GEP
		Poland	2018 2020 2021	E	-	1 1 7	-	GEP
	TOTAL:				10	9		
	TOTAL:		19					
	<i>Blumeria graminis</i> (ERYSGR)	Poland	2019	E	-	2	-	GEP
	TOTAL:		2					
Spring rye (SECCS)	<i>Rhynchosporium secalis</i> (RHYNSE)	Lithuania	2021	E	-	1	-	GEP
	TOTAL:		1					

Crop(s)	Target(s)	Country	Years	Type of trial*	Number of trials			GEP, non-GEP, official**
					MAR zone	NE zone	SE zone	
Spring oats (AVESP)	<i>Puccinia recondita</i> (PUCCCO)	Poland	2021	E	-	2	-	GEP
	TOTAL:		2					
	<i>Blumeria graminis</i> (ERYSGR)	Germany	2019	E	2	-	-	GEP
	TOTAL:		2					
Spring rye (SECCS)	<i>Puccinia recondita</i> (PUCCRE)	-	-	-	-	-	-	-
	<i>Rhynchosporium secalis</i> (RHYNSE)	Lithuania	2021	E	-	1	-	GEP
	TOTAL:		1					
	<i>Blumeria graminis</i> (ERYSGR)	-	-	-	-	-	-	-
Winter/spring durum wheat (TRZDW, TRZDS)	<i>Zymoseptoria tritici</i> (SEPTTR)							
	<i>Puccinia striiformis</i> (PUCCST)	-	-	-	-	-	-	-
	<i>Puccinia recondita</i> (PUCCRE)							
Winter/spring spelt wheat (TRZSP)	<i>Zymoseptoria tritici</i> (SEPTTR)							
	<i>Puccinia striiformis</i> (PUCCST)	-	-	-	-	-	-	-
	<i>Puccinia recondita</i> (PUCCRE)							
Grasses (ornamental & for seed production)	<i>Septoria</i> spp. (SEPTSP)	-	-	-	-	-	-	-
	<i>Puccinia</i> spp. (PUCCSP)							
Energy crop - Miscanthus	<i>Septoria</i> spp. (SEPTSP)	-	-	-	-	-	-	-
	<i>Puccinia</i> spp. (PUCCSP)							

* P = preliminary trial, MED = minimum effective dose, E = efficacy trial.

** GEP: Good Experimental Practices. Official: carried out by a national official organisation.

Table 3.2-6: Presentation of reference standards used in trials (efficacy trials)

Crop(s)	Reference standard	Country(ies) where the product is registered ⁽¹⁾	Authorization number (trade name)	Active substance(s)	Formulation		Registered application rate ⁽³⁾	Application rate in trials (per treatment)	Remark ⁽⁴⁾
					Type ⁽²⁾	Concentration of a.s.			

Cereals	A14111B	LV	0325 (Amistar Opti)	azoxystrobin + chlorothalonil	SC	80 + 400 g/L	2.5 L/ha	1.25 L/ha; 2.5 L/ha	Not registered now.
		DE	005748-00 (Amistar Opti)				2.5 L/ha	1.25 L/ha; 2.5 L/ha	Not registered now.
		LT	AS2-41F/2015 (Amistar Opti)				2.0-2.5 L/ha	1.25 L/ha; 2.5 L/ha	Not registered now.
		PL	R-20/2011 (Amistar Opti)				n/a	1.25 L/ha; 2.5 L/ha	Not registered now.
		EE	n/a				n/a	1.25 L/ha	Not registered now.
Cereals	FANDANGO 200 EC	PL	R-10/2011	prothioconazole + fluoxastrobin	EC	100 + 100 g/L	1.0 L/ha	1.25 L/ha; 1.5 L/ha	
		DE	025315-00				1.25-1.5 L/ha	1.25 L/ha; 1.5 L/ha	
		LT	0282F/09				0.8-1.0 L/ha	1.5 L/ha	
Cereals	HUTTON FORTE 280 EC	CZ	5748-1 (Hutton Forte)	prothioconazole + spiroxamine + trifloxystrobin	EC	93.9 g/L + 107 g/L + 80 g/L	1.5 L/ha	1.5 L/ha	
		SK	22-01430-AU (Hutton Forte)				1.2-1.5 L/ha	1.5 L/ha	

- (1) only on use(s) applied for (with the test product).
- (2) e.g. WP (wetable powder), EC (emulsifiable concentrate), etc.
- (3) dose(s) / dose range authorised on that use in the country.
- (4) Other relevant information (e.g. uses, number of applications, spray volume, method of application, etc.).

3.2.1 Preliminary tests (KCP 6.1)

For information on Preliminary tests please refer to Biological Assessment Dossier, Section 3: Efficacy Data and Information, Core assessment (ref. Document ID: VV-846678, June 2020).

Conclusion to “preliminary tests”

No new data are provided. No data are considered needed for this submission as A12916B Preliminary tests was fully addressed in Core submission.

3.2.2 Minimum effective dose tests (KCP 6.2)

For information on Minimum effective dose tests please refer to Biological Assessment Dossier, Section 3: Efficacy Data and Information, Core assessment (ref. Document ID: VV-846678, June 2020).

Conclusion to “minimum effective dose”

No new data are provided. No data are considered needed for this submission as A12916B Minimum effective dose tests was fully addressed in Core submission.

3.2.3 Efficacy tests (KCP 6.2)

Trials presented in this National Addendum were carried out by Syngenta organisations, contractor companies and Official Research institutes, all of which follow the EPPO guidelines and are officially recognized by the competent authorities to carry out field registration trials in accordance with the principles of Good Experimental Practice (GEP). The hyperlinks to relevant GEP certificates from the above mentioned official country testing organisations are available under Section 3.7.

Justification for data outside country of submission

Trials summarised in this National addendum were selected based on the latest requirements laid out in the Polish guidance document ‘Arrangements on making an assessment or comments on plant protection products by authorized entities – efficacy of plant protection products’. It states that the efficacy and phytotoxicity/selectivity studies of the plant protection products the authorisation of which is requested in Poland should be conducted in Poland and other North-East EPPO zone countries or neighbouring countries not belonging to the North-East EPPO zone (Germany, Czech Republic, Slovakia). The number of studies required for new applications in major crops indicated in the guidance document is 6-15 in 2 seasons.

Referring to the above-mentioned Polish guidance document, in this National Addendum there were summarised results of 16 efficacy trials in winter and spring wheat, 48 trials in winter and spring barley, 25 trials in winter and spring rye, 17 trials in winter triticale and 4 trials in spring oats conducted in Germany, Czech Republic, Poland, Latvia, Lithuania, Estonia and Slovakia in six seasons between 2018 and 2023.

Trials methodology in relation to EPPO

Trials were conducted according to the EPPO guidelines stated in **Błąd! Nie można odnaleźć źródła odwołania.** 7 and 7a. Full details of the sites and applications are provided in Appendix 2. The hyperlinks to the GEP certificates of the official testing organisation are provided in Section 3.7.

In all trials, layout was according to the randomised complete block design with 4 replicates per treatment. All normal crop husbandry measures, with the exception of fungicides, were applied to the trials area by the grower, according to crop requirements and in accordance with good agricultural practice. Trials included a range of soil types and locations to determine crop tolerance and efficacy under a range of conditions. All trials were placed within regions representative of those where cereals are grown in relevant EU countries and where the target diseases are indigenous to the area covered.

Treatments were applied in water volumes within the range of 150-300 L/ha across trials.

The standard reference product (A14111B), containing 80 g/L azoxystrobin and 400 g/L chlorothalonil, was applied according to label recommendations but at a rate (1.25 L product/ha) that is lower than the maximum label rate (2.5 L product/ha) in all trials. Comparison of the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha to this standard reference product is considered to be fully appropriate and valid as this is a relevant co-formulant mixture, which also contains azoxystrobin together with an active substance with a multi-site mode of action and contact protectant activity, and the reduced rate of 1.25 L product/ha was commonly used commercially in EU countries.

In new studies from 2020-2023, due to non-inclusion of chlorothalonil in Annex I and consequent standard reference product (A14111B) withdrawal, other products were used, namely FANDANGO 200 EC (Fandango) containing 100 g/L prothioconazole + 100 g/L fluoxastrobin was applied in Poland, Germany and Lithuania and HUTTON FORTE 280 EC (Hutton Forte) containing 107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin was applied in trials conducted in Czech republic and Slovakia.

Across 110 trials, treatments were applied at a single timing between late March and late June when crop growth stages ranged from 31-33 to 65 (BBCH) between trials and therefore fully representative of proposed label growth stage ranges for application from between 30 and 69 (BBCH), except on 1 of these trials where the application was made when the crop was at growth stage 23-28 (BBCH). However, the slightly less advanced crop growth stage at application on this trial is not considered to be sufficiently different to have markedly impacted on efficacy and therefore data generated in this trial are fully supportive towards demonstrating the efficacy of A12916B.

Disease at application is described on the basis of development stage. Crop growth stages are described using the standard BBCH scale. In all trials, efficacy was assessed according to EPPO guidelines by visual estimation of the percentage area of leaves at each level affected by individual diseases at between 1 and 20 points per plot or on an overall plot basis.

Crop colour was assessed as mean percentage green leaf area on a whole plot basis.

Crop phytotoxicity was assessed at various intervals after application. All assessments were on a 0-100 % scale, where 0 % = no damage and 100 % = total crop loss. Individual symptoms were recorded where appropriate. Where no phytotoxicity was observed, this was generally recorded within the individual trial data.

Crop yield was evaluated at normal commercial harvest using small plot combines to harvest crop from a fixed area per plot (10.5-27.5 m²) and weighing the amount of grain collected. Moisture content of the grain was also determined and yield calculated in dt/hectare, corrected to 15% moisture content. Grain quality parameters (thousand grain weight, hectolitre weight and protein content) were determined on samples of grain collected from each plot at harvest.

The Student-Newman-Keuls (SNK) method is a test for simultaneous comparisons of multiple means which controls error rates among tests of multiple groups of means (multiple range test). Please note that from all of the above trials, the results in the summary tables were extracted from trial reports where treatments of no relevance to this submission were also included. As statistical analyses were conducted

across the whole range of treatments, significance letters relate to the whole treatment list and not just to the data shown in the extracted tables.

Within this section, data are summarised from a single assessment timing (between 14 and 55 days after a single application) and from highest leaf, of the upper 3 leaves, on which disease had developed to $\geq 5\%$ severity in the untreated control on each trial, or in a few cases from leaf 4 where disease did not reach $\geq 5\%$ severity on the upper leaves in the untreated control at any of the assessment timings.

In the Table 3.2-7a details on trial methodology are presented from efficacy trials relevant to Poland. In the Table 3.2-7 details on trial methodology are presented from all trials from Core assessment as selectivity information from these trials was considered still relevant for Poland and is provided in the section 3.4.1 *Phytotoxicity to host crop*.

Table 3.2-7a: Details on trial methodology (from efficacy trials relevant to Poland)

Guidelines	General guidelines	PP1/135 (4), PP1/152 (4), PP1/181 (4), PP1/225 (2)
	Specific guidelines	PP 1/026 (4)
Experimental design	Plot design	RCB (110)
	Plot size	10.5-27.5 m ²
	Number of replications	4 (110)
Crop	Trials per crop	Winter wheat (15) Spring wheat (1) Winter triticale (17) Spring triticale (-) Winter barley (27) Spring barley (21) Winter rye (24) Spring rye (1) Spring oats (4)
	Varieties per crop	Winter wheat (15): Maritime EPPO zone: Tobak, Benchmark North-east EPPO zone: Arkadia (x4), Kws Ozon, Naridana, Lindberg, Solehio, Linus, Bogatka, Edvins, Famulus, Zyta Spring wheat (1): Maritime EPPO zone: - North-east EPPO zone: Granny Winter triticale (17): Lombardo (x3), Barolo, Sy Lombardo, Su Agendus (x2), Fredro (x2), Gringo, Meloman (x2), Belcanto, Rotondo, Dolindo, Tadeus, Tender PZO Spring triticale (-): - Winter barley (27): Maritime EPPO zone: Malwinta, Lomerit (x4), Leibniz, Orbit, Kws Kosmos, Ketos (x2), Meridian, California (x2), Vireni North-east EPPO zone: Bartosz, Bazant, Kobuz, Su Vireni, Scarpia, Zenek, Ida ,Holmes, Meridian (x2), Joy, Mercurioo, Meridian Spring barley (21): Maritime EPPO zone: Avalon, Bojos, Malz (x2) Sebastian, Francin North-east EPPO zone: Quench (x3), Propino, Austris, Abava, Tocada, Maali, Basic, Podarek, Ella, Luokey (x2) South-east EPPO zone: Kangoo (x2) Winter rye (24): Maritime EPPO zone: Su Mephisto, Su Performer, Cossani (x2),

		<p>Binntto, SU Composit, Performer (x2), Mephisto, Forsetti, Serafino North-east EPPO zone: Daniello, KWS Jethro (x2), Bono (x2), Dolaro, Dankowskie Granat, Dańkowskie Diament, Piano, Su Nasri, Tur (x3) Spring rye (1): Maritime EPPO zone: - North-east EPPO zone: Bojko</p> <p>Winter oats (-): - Spring oats (4): Maritime EPPO zone: Max, Apollon North-east EPPO zone: Bingo, Kasztan</p>
Application	Crop stage (BBCH) at application	<p>Winter wheat: from 31- 65 (BBCH). Spring wheat: from 34 to 65 (BBCH). Winter triticale: from 37- 59 (BBCH). Spring triticale: - Winter barley: from 32 to BBCH 59 (BBCH). Spring barley: from 32 to BBCH 59 (BBCH). Winter rye: from 23-28 to 55-59 (BBCH). Spring rye: 51 (BBCH). Winter oats: - Spring oats: from 41 to 52 (BBCH).</p>
	Number of applications	1 (110)
	Intervals between applications	
	Spray volumes	150 - 300 L/ha
Assessment	Assessment types	% disease severity on all leaf levels, % green leaf area, % phytotoxicity, crop yield (dt/ha), HLW (kg/hL), TGW (g), protein content (%)
	Assessment dates	<p>Phytotoxicity assessments: Throughout growing season Efficacy % disease severity assessments: Wheat: 20-44 DA-A1 Triticale: 15-50 DA-A1 Barley: 14-48 DA-A1 Rye: 17-55 DA-A1 Oats: 22-35 DA-A1 Yield assessments: At normal crop harvest Quality assessments: At harvest or post-harvest</p>
Other relevant information	Disease infection	Natural
	Field / Greenhouse...	Field

Table 3.2-7: Details on trial methodology

Guidelines	General guidelines	PP1/135 (4), PP1/152 (4), PP1/181 (4), PP1/225 (2)
	Specific guidelines	PP 1/026 (4)
Experimental design	Plot design	RCB (222)
	Plot size	9.9-40 m ²
	Number of replications	4 (222)
Crop	Trials per crop	<p>Winter wheat (69) Spring wheat (6) Durum wheat (11) Winter triticale (9) Winter barley (80) Spring barley (25) Winter rye (17) Winter oats (3) Spring oats (2)</p>
	Varieties per crop	<p>Winter wheat: Akteur (2), Annapurna (1), Apache (2), Arezzo (1), Arkadia (4), Barrel (1), Benchmark (3), Bennington (1), Bogatka (1), Bologna (1), Britannia (1), Bussart (1), Costello (1), Dumbrava (1), Edvins (1), Eksotic (1), Famulus (1), Giorgione (1), Gk Bekes (1), Gk Csillag (1), Hereford (1), Istabraq (1), Izvor (1), Jafet (1), Joker (2), Kashmir (1), Korona (1), Kws Barrel (1), Kws Basset (1), Kws Ozon (1), Laurier (1), Lindberg (1), Linus (1), Lukullus (1), Lumos (1), Lyrik (1), Magdalena (1), Marco Polo (1), MV Buzogany (1), Mv Nador (1), Naridana (1), Nemo (1), Oregain (1), Orloge (1), Reflection (1), Rgt Sacramento (1), Ritmo (1), Sadovo (1), Soissons (1), Solehio (2), Somontano (1), Sorrial (1), Sy Moisson (1), Taller (1), Tiepolo (1), Tobak (2), Torp (1), Trapez (1), Zyta (1) Spring wheat: Crackling (2), Garcia (1), Giorgione (1), Granny (1), Mv Suba (1) Durum wheat: Achille (1), Amilcar (1), Anvergur (1), Athoris (1), Egeo (1), Maestrone (1), Massimo Meridio (1), Miradoux (1), Quadrato (1), Saragolla (1), Svevo (1) Winter triticale: Barolo (1), Bikini (1), Fredro (1), Gringo (1), Lombardo (1), Su Agendus (1), Sy Lombardo (1), Tribeca (1), Tribeca (1) Winter barley: Ahat (1), Amazon (1), Amistar (3), Antonella (1), Aquirone (1), Bartosz (1), Bazant (1), Belmont (1), California (3), Cardinal (2), Casanova (1), Etincel (8), Fantasy (1), Fridericus (1), Funky Nov (1), Gerlach (1), Giga (1), Heidi (1), Holmes (1), Ibaiona (1), Ida (1), Joy (1), Ketos (1), Kobuz (1), Kws Cassia (2), Kws Kosmos (1), Kws Tenor (1), Kws Tower (2), Leibniz (1), Lomerit (2), Maltesse (2), Malwinta (1), Mercurioo (1), Meridian (3), Meseta (1), Montana (1), Nectaria (1), Obzor (3), Planet (2), Potok (1), Rafaela (1), Salamandre (1), Sandra (1), Saturn (1), Scarpia (1), Su Elen (1), Su Vireni (1), Sunshine (1), Sy Venture (1), Tonic (3), Traveler (1), Veslec (2), Vireni (1), Volume (1), Zenek (1) Spring barley: Abava (1), Austris (1), Basic (1), Ella (1), Encarna (1), Fandanga (1), Luoke (1), Milford (1), Pewter (1), Planet (2), Podarek (1), Prestige (1), Propino (2), Quench (3), Rgt Planet (4), Shakira (1), Thuringia (1), Tocada (1) Winter rye: Binntto (1), Bono (1), Corssini (1), Cossani (1), Daniello (1), Kws Binntto (1), Livado (1), Millennium (1), Performer (1), Protector (1), Serafino (1), Su Composit (1), Su Mephisto (1), Su Nasri (1), Su Performer (1), Tur (2)</p>

		Winter oats: Charmoise (1), Dalguise (1), Timoko (1) Spring oats: Apollon (1), Max (1)
Targets	Target diseases	Wheat: SEPTTR (60), PUCCRE (36), PUCCSI (23) Triticale: SEPTTR (9), PUCCRE (4), ERYSGR (4) Barley: PYRNTE (59), PUCCHD (28), RHYNSE (23), RAMUCC (25), ERYSGR (14) Rye: RHYNSE (8), PUCCRE (13), ERYSGR (2) Oats: PUCOCO (2), ERYSGR (3)
Application	Crop stage (BBCH) at application	Winter wheat: from BBCH 30-31 to BBCH 47-51 (A1), from BBCH 32 to BBCH 51-55 (A2) Spring wheat: from BBCH 34-37 to BBCH 65 (A1) Durum wheat: from BBCH 37-39 to BBCH 45-49 (A1) Winter triticale: from BBCH 37-39 to BBCH 59 (A1) Winter barley: from BBCH 31 to BBCH 59 (A1), from BBCH 37-47 to BBCH 58 (A2) Spring barley: from BBCH 31 to BBCH 51-59 (A1), from BBCH 37-52 to BBCH 51-57 (A2) Winter rye: from BBCH 23-28 to BBCH 55-59 (A1) Winter oats: from BBCH 37-43 to BBCH 51 (A1) Spring oats: BBCH 47-52 (A1)
	Number of applications Intervals between applications	1 (201) 2 (21) with intervals of 10-34 days
	Spray volumes	150 L/ha (14), 170 L/ha (1), 200 L/ha (92), 230 L/ha (2), 250 L/ha (19), 300 L/ha (80), 330 L/ha (1), 400 L/ha (12), n/d (1)
Assessment	Assessment types	% disease severity on all leaf levels, % green leaf area, % phytotoxicity, crop yield (dt/ha), HLW (kg/hL), TGW (g), protein content (%)
	Assessment dates	Wheat (86): between 6-62 DA-A1 / 4-50 DA-A2, at harvest Triticale (9): between 7-50 DA-A1, at harvest Barley (105): between 5-62 DA-A1 / 1-36 DA-A2, at harvest Rye (17): between 7-75 DA-A1, at harvest Oats (5): between 6-51 DA-A1, at harvest
Other relevant information	Disease infection	Natural
	Field / Greenhouse...	Field

3.2.3.1 Efficacy against target diseases in wheat

3.2.3.1.1 Septoria leaf spot (*Zymoseptoria tritici*: SEPTTR)

Syngenta comment	No new data are provided for the purpose of this National Addendum. Not relevant data from Maritime, Mediterranean and South-east zones were deleted as North-east data fully support the use in Poland. The zonal assessment stays valid.
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EPPO climatic zone – North-east

Efficacy data for Septoria leaf spot (SEPTTR) in wheat are presented from 10 efficacy trials in the North-east climatic zone and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. All these trials were carried out in 2018 and 2019 on winter wheat in Poland.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 31-33 to 43-47 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

The locations and distribution of all trials within the North-east EPPO climatic zone from which data are summarised in support of demonstrating efficacy against SEPTTR in wheat are shown on the following map.

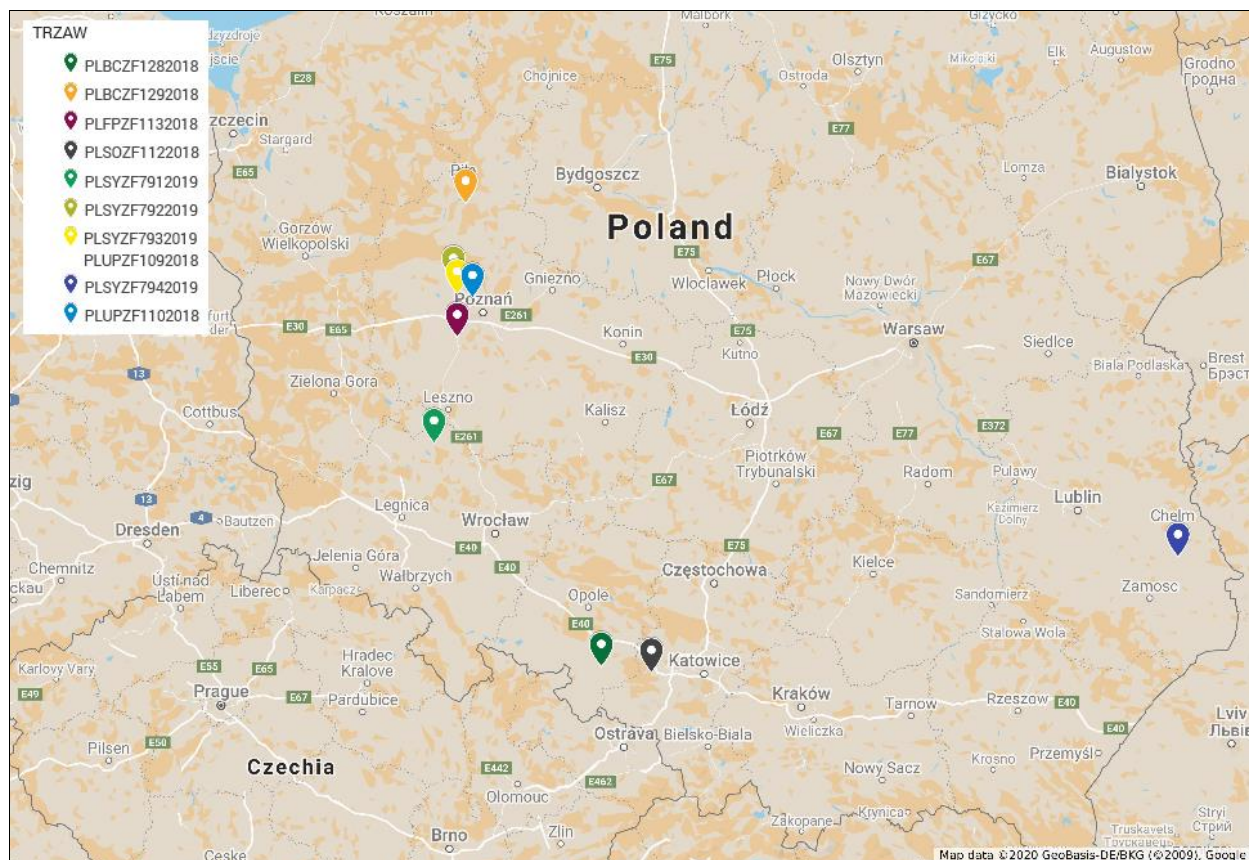


Table 3.2-8: Efficacy against SEPTTR on wheat taken from 10 trials in the North-east climatic zone

Pest: <i>Zymoseptoria tritici</i> Application volume: 150-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated % sev.	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750 % sev. % eff.		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500 % sev. % eff.		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000 % sev. % eff.	
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed								
TRZAW	PLBCZF1282018	14-May-18	0-11.1%	45 - 45	20-Jun-18	75 - 75	37 (1)	LEAF1		6.3 a	1.4 c	78.0	1.1 c	82.0		
TRZAW	PLBCZF1292018	17-May-18	0 - 5%	41 - 41	21-Jun-18	75 - 75	35 (1)	LEAF2		6.5 a	1.8 b	73.0	2.0 b	69.0		
TRZAW	PLFPZF1132018	18-May-18	0-0.5%	41 - 43	20-Jun-18	83 - 83	33 (1)	LEAF2		5.1 a	0.7 b	86.0	0.7 b	86.0		
TRZAW	PLSOZF1122018	28-Apr-18	-	31 - 33	04-Jun-18	73 - 73	37 (1)	LEAF2		7.4 a	4.7 ac	37.0	5.9 ab	20.0		
TRZAW	PLSYZF7912019	01-May-19	0 - 2%	37 - 39	14-Jun-19	73 - 77	44 (1)	LEAF3		6.8 a	0.7 d	90.0	1.1 bd	83.0	1.1 bd	84.0
TRZAW	PLSYZF7922019	21-May-19	1 – 8%	39 - 41	25-Jun-19	75 - 75	35 (1)	LEAF2		8.0 b	2.9 d	64.0	3.6 cd	55.0	3.2 cd	59.0
TRZAW	PLSYZF7932019	21-May-19	0 - 3%	43 - 45	25-Jun-19	73 - 77	35 (1)	LEAF2		10.2 b	2.2 f	79.0	3.8 c	63.0	2.4 ef	77.0
TRZAW	PLSYZF7942019	30-May-19	0 - 5%	43 - 47	04-Jul-19	73 - 77	35 (1)	LEAF2		9.1 a	2.3 b	75.0	3.1 b	66.0	2.4 b	74.0
TRZAW	PLUPZF1092018	18-May-18	0 - 15%	43 - 47	22-Jun-18	73 - 77	35 (1)	LEAF1		41.6 a	1.8 e	96.0	3.8 cd	91.0		
TRZAW	PLUPZF1102018	15-May-18	1 - 10%	41 - 45	22-Jun-18	73 - 77	38 (1)	LEAF1		42.8 b	1.4 g	97.0	3.0 ef	93.0		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 10 trials							33-44 DA-A1	LEAF 1-3	No. of trials	10	10	10	-			
									Mean	14.4	77.5	70.8	-			
									Min-max	5.1-42.8	37.0-97.0	20.0-93.0	-			
									S.D.	-	17.65	21.92	-			
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 4 trials							35-44 DA-A1	LEAF 2-3	No. of trials	4	4	-	4			
									Mean	8.5	77.0	-	73.5			
									Min-max	6.8-10.2	64.0-90.0	-	59.0-84.0			
									S.D.	-	10.74	-	10.54			

By summarised assessments (33-44 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to high (5.1-42.8%) between trials. This represents up to a moderately severe test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 77.5.8% (range 37.0-97.0%) across these 10 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and also at the maximum label rate of 2.5 L product/ha, where included in 4 trials, with the differences compared to the 1.25 L product/ha rate being statistically significant on 3 of the trials.

Overall conclusion

Data generated in Poland clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of *Zymoseptoria tritici* (SEPTTR) on wheat.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and also at the maximum label rate of 2.5 L product/ha, where included in 4 trials, with the differences compared to the 1.25 L product/ha rate being statistically significant on 3 of the trials.

Based on presented data, it is therefore considered that claim for control of Septoria leaf spot (SEPTTR) on winter wheat by A12916B applied at the proposed label rate of 1.5 L product/ha is fully supported.

Conclusion to *Zymoseptoria tritici* on wheat

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Data were presented from 10 trials in the North-East EPPO zone. A12916B gave good control of *Zymoseptoria tritici* with an average 77.5% recorded about 36 (33 – 44) days after treatment with infection in the untreated ranging from 5.1 to 42.8 % (~14.4%). The efficacy of the product varied from 37.0 to 97.0%. Standard products performed in average on lower level of control of 70.8%.

Based on the summarized data showing slightly better efficacy than the standard reference product, the claims for control of SEPTTR in wheat by A12916B, applied at the proposed label rate of 1.5 l/ha, are considered acceptable.

These trials, therefore, confirm the efficacy of the product in the North-East EPPO zone.

3.2.3.1.2 Yellow rust (*Puccinia striiformis* f. sp. tritici: PUCCSI)

Syngenta comment	No new data are provided. For the purpose of this National Addendum regrouping of the available data was carried out according to the national requirements.
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Efficacy data for Yellow rust (PUCCSI) in wheat are presented from 6 efficacy trials in the Maritime and North-East climatic zones and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2018 and 2019 in Germany (2 trials), Latvia (2 trials) and Poland (2 trials). Five (5) trials were carried out on winter wheat and 1 trial on spring wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Treatments were applied at a single timing when crop growth stages ranged from 37 to 65 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-9: Efficacy against PUCCSI on wheat taken from 6 trials with single application in Poland and Germany

Pest: <i>Puccinia striiformis</i> f. sp. <i>tritici</i> Appl'n volume: 200-250 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Appl'n Date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed		% sev.	% sev.	% eff.	% sev.	% eff.	% sev.	% eff.
TRZAW	DESYZF7782019	20-May-19	-	39 - 41	26-Jun-19	75 - 77	37 (1)	LEAF1		12.2 a	2.2 bc	82.0	2.1 bc	83.0	0.5 d	96.0
TRZAW	DESYZF7792019	18-May-19	-	37 - 37	26-Jun-19	75 - 77	39 (1)	LEAF1		7.0 a	0.1 e	98.0	1.3 ce	81.0	1.1 ce	84.0
TRZAW	LVRIZF7842019	23-May-19	1 - 5%	39 - 43	28-Jun-19	77 - 83	36 (1)	LEAF1		33.8 a	0.3 c	99.0	0.4 c	99.0	1.4 c	96.0
TRZAW	PLSYZF7922019	21-May-19	0 - 1%	39 - 41	25-Jun-19	75 - 75	35 (1)	LEAF1		5.3 b	2.2 c	59.0	2.2 c	58.0	2.2 c	59.0
TRZAW	PLUPZF1092018	18-May-18	0 - 5%	43 - 47	22-Jun-18	73 - 77	35 (1)	LEAF1		32.8 a	10.3 e	69.0	11.2 e	66.0		
TRZAS	LVALZF1062018	27-Jun-18	0 - 30%	65 - 65	17-Jul-18	75 - 75	20 (1)	LEAF2		8.4 a	0.9 b	89.0	0.3 b	96.0		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 6 trials									Mean	16.6	82.7		80.5		-	
									Min-max	5.3-33.8	59-99		58-99		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 4 trials									Mean	14.6	84.5		-		83.8	
									Min-max	5.3-33.8	59-99		-		59-96	

By summarised assessments carried out following the last applications (20-39 DA-A1), on the 6 trials with valid data, mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (6.7-33.8%) between trials. This represents a moderate test of the efficacy of the treatments.

A12916B applied at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 82.7% (range 59.0-99.0%) following a single application across 6 trials with valid data.

Following a single application on 6 trials with valid data, the overall efficacy of A12916B at the proposed label rate of 1.5 L product/ha was comparable than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied 1.25 L product/ha, no statistically significant differences were observed on any of the trials. The efficacy of A12916B at the proposed label rate of 1.5 L product/ha was not statistically significant to that of A14111B applied at the maximum label rate of 2.5 L product/ha, on 3 of the 4 trials in which it was included but was statistically significantly lower on the other 1 trial.

Overall conclusion

Data generated across trials carried out in Germany, Poland and Latvia clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of *Puccinia striiformis* f. sp. *tritici* (PuccSI) on wheat.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was comparable to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L and at lower rate of 1.25 L product/ha.

Based on presented data, it is therefore considered that claims for control of Yellow rust (PuccSI) on winter and spring wheat by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported.

Conclusion to *Puccinia striiformis* on spring and winter wheat

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Infection by *Puccinia striiformis* was verified at acceptable levels in a total of four trials carried out between 2018 and 2019 in N-E zone. Those were combined with the results of the two German trials since this is a neighbouring country and considered as valid to Poland.

A12916B gave reasonable control of PuccSI with an average 82.7% (disease severity) recorded 20-39 DA-A1 with infection in the untreated ranging from 5.3 to 33.8 % (~14%). The efficacy of the product varied from 59.0 to 99.0 %. On spring wheat, a single application of A12916B gave a level of control of 89.0%.

Data demonstrated that the efficacy of A12916B at the proposed rate of 1.5 L/ha was very good, being in general equivalent to the standard products based on azoxystrobin + chlorothalonil mixtures. It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against *Puccinia striiformis* f. sp. *tritici* (PuccSI) on wheat.

No specific EPPO extrapolation table is available on foliar and ear diseases. Nevertheless, the Polish guidance states that for *Puccinia striiformis* f. sp. *tritici* (PuccSI), it is possible to extrapolate from winter wheat to spring wheat, because in these crops same diseases can be found and their susceptibility to infection is lower. Therefore, results on major host winter wheat will also support the use on spring wheat.

3.2.3.1.3 Brown rust (*Puccinia recondita*: PCCRE)

Syngenta comment	No new data are provided for the purpose of this National Addendum. Not relevant data from Maritime, Mediterranean and South-east zones were deleted as North-east data fully support the use. The zonal assessment stays valid.
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EPPO climatic zone – North-east

Efficacy data for Brown rust (PCCRE) in wheat are presented from 9 efficacy trials in the North-east climatic zone and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2018 and 2019 in Latvia (2 trials) and Poland (7 trials). All these trials were carried out on winter wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 31-33 to 45-47 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

The locations and distribution of all trials within the North-east EPPO climatic zone from which data are summarised in support of demonstrating efficacy against PCCRE in wheat are shown on the following map.

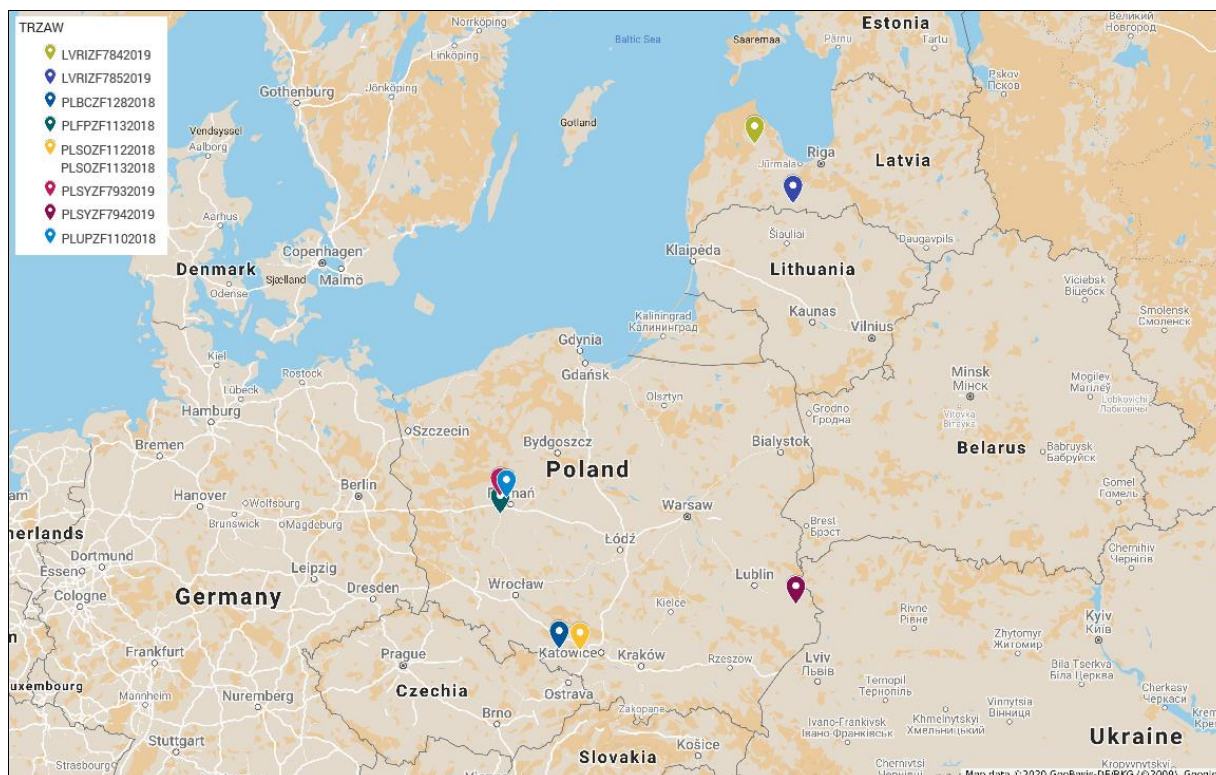


Table 3.2-10: Efficacy against Puccre on wheat taken from 9 trials in the North-east climatic zone

Pest: <i>Puccinia recondita</i> Application volume: 150-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.		% sev.	% eff.	% sev.	% eff.	% sev.	% eff.	
TRZAW	LVRIZF7842019	23-May-19	-	39 - 43	28-Jun-19	77 - 83	36 (1)	LEAF1		24.4 <i>a</i>	1.8 <i>d</i>	93.0	2.2 <i>d</i>	91.0	1.0 <i>d</i>	96.0	
TRZAW	LVRIZF7852019	23-May-19	-	37 - 39	26-Jun-19	77 - 83	34 (1)	LEAF1		6.2 <i>ab</i>	0.3 <i>c</i>	95.0	0.0 <i>c</i>	100.0	0.0 <i>c</i>	100.0	
TRZAW	PLBCZF1282018	14-May-18	-	45 - 45	20-Jun-18	75 - 75	37 (1)	LEAF1		38.8 <i>a</i>	5.5 <i>c</i>	86.0	6.8 <i>c</i>	82.0			
TRZAW	PLFPZF1132018	18-May-18	-	41 - 43	20-Jun-18	83 - 83	33 (1)	LEAF2		6.8 <i>a</i>	1.2 <i>cd</i>	82.0	1.2 <i>cd</i>	82.0			
TRZAW	PLSOZF1122018	28-Apr-18	-	31 - 33	04-Jun-18	73 - 73	37 (1)	LEAF1		8.8 <i>a</i>	2.4 <i>de</i>	73.0	3.5 <i>ce</i>	60.0			
TRZAW	PLSOZF1132018	21-May-18	0 - 2%	45 - 47	25-Jun-18	75 - 77	35 (1)	LEAF1		28.1 <i>b</i>	8.9 <i>f</i>	68.0	6.1 <i>fg</i>	78.0			
TRZAW	PLSYZF7932019	21-May-19	0 - 3%	43 - 45	25-Jun-19	73 - 77	35 (1)	LEAF2		7.6 <i>a</i>	2.0 <i>e</i>	74.0	3.4 <i>bc</i>	55.0	2.8 <i>be</i>	63.0	
TRZAW	PLSYZF7942019	30-May-19	-	43 - 47	04-Jul-19	73 - 77	35 (1)	LEAF2		6.2 <i>a</i>	1.6 <i>b</i>	75.0	2.5 <i>b</i>	60.0	2.2 <i>b</i>	65.0	
TRZAW	PLUPZF1102018	15-May-18	0 - 0 %	41 - 45	22-Jun-18	73 - 77	38 (1)	LEAF1		23.8 <i>b</i>	0.4 <i>h</i>	98.0	3.2 <i>f</i>	86.0			
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 9 trials							33-38 DA-A1	LEAF 1-2	No. of trials	9	9	9	-				
									Mean	16.7	82.7	77.1	-				
									Min-max	6.2-38.8	68.0-98.0	55.0-100.0	-				
									S.D.	-	10.89	15.49	-				
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 4 trials							34-36 DA-A1	LEAF 1-2	No. of trials	4	4	-	4				
									Mean	11.1	84.3	-	81.0				
									Min-max	6.2-24.4	74.0-95.0	-	63.0-100.0				
									S.D.	-	11.30	-	19.71				

By summarised assessments (33-38 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to high (6.2-38.8%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A12916B applied at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 82.7% (range 68.0-98.0%) across these 9 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials, with the differences being statistically significantly on 2 trials, and comparable to A14111B applied at the maximum label rate of 2.5 L product/ha, where included in 4 of the trials.

Overall conclusion

Data generated in Poland and Latvia clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of *Puccinia recondita* (PUCCRE) on wheat.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly higher to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and comparable to that of A14111B at the maximum label rate of 2.5 L product/ha.

Based on presented data, it is therefore considered that claims for control of Brown rust (PUCCRE) on winter wheat by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported.

Conclusion to *Puccinia recondita* on wheat

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Infection by *Puccinia recondita* (PUCCRE) was verified at acceptable levels in a total of nine trials carried out between 2018 and 2019 in N-E zone.

A12916B gave reasonable control of PUCCRE with an average 82.7% (disease severity) recorded 33-38 DA-A1 with infection in the untreated ranging from 6.2 to 38.8 % (~16.7%). The efficacy of the product varied from 68.0 to 98.0 %. Control of PUCCRE with the tested product was superior to A14111B when applied at 1.25 L/ha, and equivalent to A14111B when applied at the maximum label rate of 2.5 L/ha. It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against *Puccinia recondita* (PUCCRE) on wheat.

3.2.3.1.4 Yield (and relevant quality indicators), from efficacy trials (in the presence of challenging pest populations) - wheat

Plant quality

EPPO climatic zone – Maritime

Green leaf area data from 2 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in wheat are presented in Table 3.2-. These trials were carried out in 2019 in Germany. All 2 trials were carried out on winter wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on wheat.

Treatments were applied at a single timing when crop growth stages ranged from 37 to 41 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha.

Table 3.2-11: Plant quality data (% green leaf area) on wheat taken from 2 trials with single application that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean		Mean	
TRZAW	DESYZF7782019	ERYSGR*, PUCCRT, PUCCSI	39 - 41	58 (1)		0.5	ab	1.0	ab	1.8	ab	2.2	ab
TRZAW	DESYZF7792019	PUCCSI, SEPTTR	37 - 37	53 (1)		7.5	c	37.5	b	37.5	b	55.0	a
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	4.0		19.3		19.7		28.6	
					Min-max	0.5-7.5		1-37.5		1.8-37.5		2.2-55	

* non-target disease also was present in the trial

By the summarised assessments carried out following single application on the 2 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha increased green leaf area significantly in one of the trials, compared to the untreated control.

The overall increase in green leaf area given by A12916B at the proposed label rate of 1.5 L product/ha was comparable to that given by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and slightly lower than that given by A14111B applied at the maximum label rate of 2.5 L product/ha.

The increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Green leaf area data from 13 efficacy trials in the North-east climatic zone that generated valid data on target diseases in wheat are presented in Table 3.2-. These trials were carried out in 2018 and 2019 in Latvia (3 trials) and Poland (10 trials). Of these trials, 12 were carried out on winter wheat and 1 was carried out on spring wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on wheat.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 31-33 to 65 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-12: Plant quality data (% green leaf area) on wheat taken from 13 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean		Mean	
TRZAW	PLBCZF1282018	ERYSGR*, PUCCRT, SEPTTR	45 - 45	37 (1)		36.5	e	70.5	b	72.5	ab		
TRZAW	PLBCZF1292018	ERYSGR*, SEPTTR	41 - 41	35 (1)		70.0	b	75.0	a	75.0	a		
TRZAW	PLFPZF1132018	ERYSGR*, PUCCRT, SEPTTR	41 - 43	40 (1)		8.8	c	16.2	ab	16.2	ab		
TRZAW	PLSOZF1122018	ERYSGR*, PUCCRT, PYRNTR*, SEPTTR	31 - 33	43 (1)		53.8	d	71.2	ab	67.5	bc		
TRZAW	PLSOZF1132018	ERYSGR*, PUCCRT, PYRNTR*	45 - 47	35 (1)		47.2	de	76.8	ab	75.2	ab		
TRZAW	PLUPZF1092018	PUCCRT, SEPTTR	43 - 47	35 (1)		18.8	d	30.0	b	30.0	b		
TRZAW	LVRIZF7842019	ERYSGR*, LEPTNO*, PUCCRT, PUCCSI, PYRNTR*	39 - 43	36 (1)		62.5	bc	75.0	a	76.2	a	75.0	a
TRZAW	LVRIZF7852019	ERYSGR*, LEPTNO*, PUCCRT, PYRNTR*	37 - 39	34 (1)		60.0	a	62.5	a	67.5	a	61.2	a
TRZAW	PLSYZF7912019	SEPTTR	37 - 39	44 (1)		35.0	d	55.0	ab	45.0	bd	50.0	ac
TRZAW	PLSYZF7922019	ERYSGR*, PUCCSI, SEPTTR	39 - 41	35 (1)		41.2	bc	47.5	ab	47.5	ab	46.2	ab
TRZAW	PLSYZF7932019	ERYSGR*, PUCCRT, SEPTTR	43 - 45	35 (1)		22.5	c	42.5	a	35.0	ac	35.0	ac
TRZAW	PLSYZF7942019	PUCCRT, SEPTTR	43 - 47	35 (1)		20.0	b	36.2	a	28.8	a	33.8	a
TRZAS	LVALZF1062018	PUCCSI, PYRNTR*	65 - 65	27 (1)		5.0	a	5.0	a	5.0	a		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 13 trials					Mean	37.0		51.0		49.3		-	
					Min-max	5.0-70.0		5.0-76.8		5.0-76.2		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials					Mean	40.2		53.1		-		50.2	
					Min-max	20.0-62.5		36.2-75.0		-		33.8-75.0	

* non-target disease also was present in the trial

At summarised assessments (27-44 DA-A1) on the 12 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control.

The overall increase in green leaf area given by A12916B at the label rate of 1.5 L product/ha was comparable to those given by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and at the maximum label rate of 2.5 L product/ha, where included in 6 of the trials.

Increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Plant quality on wheat efficacy trials: Overall conclusion from Maritime and North-East EPPO climatic zones

A total of 15 of the trials carried out in 2018 and 2019 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases in wheat also generated data on green leaf area. Of these trials, 14 were carried out on winter wheat and 1 was carried out on spring wheat.

Of these 15 trials, 2 were carried out in the Maritime climatic zone (Germany) and 13 were carried out in the North-east climatic zone (3 in Latvia, 10 in Poland).

Treatments were applied at single timings when crop growth stages were within the range of 31-65 (BBCH) across trials.

An overall summary of effects on green leaf area of A12916B, compared to those of the standard reference product, across these 15 trials is given in Table 3.2-.

Table 3.2-13: Effects on plant quality of A12916B across efficacy trials on wheat

EPPO climatic zone	No. of trials		Mean % green leaf area at final assessment timings						
			Untreated	A12916B	A12916B compared to Untreated*	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*
				1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA	
Maritime	2 of 2	Mean	4.0	19.3	1 trial >	19.7	2 trials =	28.6	1 trial <
		Min-max	0.5-7.5	1-37.5	1 trial =	1.8-37.5		2.2-55	1 trial =
North-east	13 of 13	Mean	37.0	51.0	10 trials >	49.3	13 trials =	-	-
		Min-max	5.0-70.0	5.0-76.8	3 trials =	5.0-76.2		-	
	6 of 13	Mean	40.2	53.1	-	-	-	50.2	6 trials =
		Min-max	20.0-62.5	36.2-75.0		-		33.8-75.0	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across all EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increases green leaf area as a direct function of efficacy against target diseases on wheat and adverse effects of the disease in the untreated control.

Increases in green leaf area produced by A12916B were generally similar to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or at lower rates.

Increases in green leaf area produced by A12916B in these trials can be directly attributed to control of the target diseases and provide further evidence of the efficacy of A12916B against these diseases on wheat.

Crop yield

EPPO climatic zone – Maritime

Crop yield data from 2 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in wheat are presented in Table 3.2-7. These trials were carried out in 2019 in Germany. Both trials were carried out on winter wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in wheat.

Treatments were applied at a single timing when crop growth stages ranged from 37 to 41 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha.

Table 3.2-7: Crop yield data on wheat taken from 2 trials with single application that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
TRZAW	DESYZF7782019	ERYSGR*, PUCCRT, PUCCSI	39 - 41	98 (1)		74.7	d	87.4	ac	117.0	92.9	a	124.4	93.4	a	125.0
TRZAW	DESYZF7792019	PUCCSI, SEPTTR	37 - 37	85 (1)		77.5	a	82.4	a	106.3	84.8	a	109.4	85.5	a	110.3
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	76.1		111.7			116.9			117.7		
					Min-max	74.7-77.5		106.3-117			109.4-124.4			110.3-125		

* non-target disease also was present in the trial

On both trials, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, and on 1 of the 2 trials the increase was statistically significant.

Effects on crop yield produced by single application of A12916B at the label rate of 1.5 L product/ha were slightly lower to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L and at lower rate of 1.25 L product/ha but differences were not statistically significant.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Crop yield data from 14 efficacy trials in the North-east climatic zone that generated valid data on target diseases in wheat are presented in Table 3.2-. These trials were carried out in 2018 and 2019 in Latvia (3 trials) and Poland (11 trials). Of these trials, 13 were carried out on winter wheat and 1 was carried out on spring wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in wheat.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 31-33 to 65 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-15: Crop yield data on wheat taken from 14 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
TRZAW	LVRIZF7842019	ERYSGR*, LEPTNO*, PUCCRT, PUCCSI, PYRNTR*	39 - 43	74 (1)		83.7 bc	91.0 ab	108.7	92.9 a	111.0	95.7 a	114.3
TRZAW	LVRIZF7852019	ERYSGR*, LEPTNO*, PUCCRT, PYRNTR*	37 - 39	64 (1)		68.3 de	79.1 bc	115.8	79.3 bc	116.1	82.7 ab	121.1
TRZAW	PLBCZF1282018	ERYSGR*, PUCCRT, SEPTTR	45 - 45	70 (1)		57.4 c	63.4 ab	110.5	64.1 ab	111.7		
TRZAW	PLBCZF1292018	ERYSGR*, SEPTTR	41 - 41	74 (1)		33.6 b	46.9 a	139.6	44.3 a	131.8		
TRZAW	PLFPZF1132018	ERYSGR*, PUCCRT, SEPTTR	41 - 43	52 (1)		41.8 b	46.5 ab	111.2	46.9 a	112.2		
TRZAW	PLSOZF1122018	ERYSGR*, PUCCRT, PYRNTR*, SEPTTR	31 - 33	85 (1)		74.5 a	76.5 a	102.7	76.4 a	102.6		
TRZAW	PLSOZF1132018	ERYSGR*, PUCCRT, PYRNTR*	45 - 47	67 (1)		64.7 b	68.3 ab	105.6	68.5 ab	105.9		
TRZAW	PLSYZF7912019	SEPTTR	37 - 39	69 (1)		52.0 b	56.0 a	107.7	53.9 ab	103.7	56.0 a	107.7
TRZAW	PLSYZF7922019	ERYSGR*, PUCCSI, SEPTTR	39 - 41	58 (1)		64.2 b	77.1 a	120.1	77.3 a	120.4	76.8 a	119.6
TRZAW	PLSYZF7932019	ERYSGR*, PUCCRT, SEPTTR	43 - 45	57 (1)		54.1 b	60.7 a	112.2	60.9 a	112.6	60.8 a	112.4
TRZAW	PLSYZF7942019	PUCCRT, SEPTTR	43 - 47	74 (1)		69.8 a	80.3 a	115.0	78.0 a	111.7	80.3 a	115.0
TRZAW	PLUPZF1092018	PUCCSI, SEPTTR	43 - 47	69 (1)		63.1 c	79.8 ab	126.5	85.6 a	135.7		
TRZAW	PLUPZF1102018	PUCCRT, SEPTTR	41 - 45	63 (1)		58.5 ab	60.1 ab	102.7	63.1 a	107.9		
TRZAS **	LVALZF1062018	PUCCSI, PYRNTR*	65 - 65	62 (1)		12.7 a	10.9 a	85.8	11.9 a	93.7		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 13 trials – winter wheat					Mean	60.4	113.7	114.1			-	
					Min-max	33.6-83.7	102.7-139.6	102.6-135.7			-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials – winter wheat					Mean	65.4	113.3	-			115.0	
					Min-max	52-83.7	107.7-120.1	-			107.7-121.1	
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 1 trial – spring wheat					Mean	12.7	85.8	93.7			-	
					Min-max	-		-			-	

* non-target disease also was present in the trial;

**Yield was so low due to dry weather conditions.

On the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, and on 7 of the 14 trials the increases were statistically significant.

Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were consistently comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L and/or at a lower rate of 1.25 L product/ha.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Crop yield on wheat efficacy trials: Overall conclusion from Maritime and North-East EPPO climatic zones

A total of 16 trials carried out in 2018 and 2019 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on wheat also generated data on crop yield. Of these trials, 15 were carried out on winter wheat and 1 was carried out on spring wheat.

Of these 16 trials, 2 were carried out in the Maritime climatic zone (Germany), 14 were carried out in the North-east climatic zone (3 in Latvia, 11 in Poland).

Treatments were applied at single timings made when crop growth stages ranged from 31 to 65 (BBCH) across trials.

An overall summary of effects on crop yield of A12916B, compared to those of the standard reference product, across 15 trials is given in Table 3.2-. Trial from Latvia with very low yield was not included in the overall summary.

Table 3.2-16: Effects on crop yield of A12916B across efficacy trials on wheat

EPPO climatic zone	No. of trials		Mean crop yield (as % of untreated)						
			Untreated	A12916B	A12916B compared to Untreated*	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*
				1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA	
Maritime	2 of 2	Mean	76.1	111.7	1 trial =	116.9	2 trials =	117.7	2 trials =
		Min-max	74.7-77.5	106.3-117	1 trial >	109.4-124.4		110.3-125	
North-east	13 of 13	Mean	60.4	113.7	6 trials =	114.1	13 trials =	-	-
		Min-max	33.6-83.7	102.7-139.6	7 trials >	102.6-135.7		-	
	6 of 13	Mean	65.4	113.3	-	-	-	115.0	6 trials =
		Min-max	52-83.7	107.7-120.1		-		107.7-121.1	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across Maritime and North-east EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, on the majority of the trials as a direct function of efficacy against target diseases and on 8 of the trials the differences were statistically significant.

Increases in crop yield produced by A12916B were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and at lower rate.

Where occurring, increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on wheat.

Yield quality

EPPO climatic zone – Maritime

Grain quality parameter data from 2 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in wheat are presented in Table 3.2- (TGW), Table 3.2- (HLW) and

Table 3.2- (protein content). These trials were carried out in 2019 in Germany. Both trials were carried out on winter wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in wheat.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 49 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-17: TGW data on wheat taken from 2 trials with single application that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
TRZAW	DESYZF7782019	ERYSGR*, PUCCRT, PUCCSI	39 - 41	105 (1)		35.5 ab	40.0 a	112.7	40.2 a	113.2	40.9 a	115.2
TRZAW	DESYZF7792019	PUCCSI, SEPTTR	37 - 37	108 (1)		39.9 ab	42.7 a	107.0	42.5 a	106.5	43.2 a	108.3
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	37.7	109.9		109.9		111.8	
					Min-max	35.5-39.9	107-112.7		106.5-113.2		108.3-115.2	

* non-target disease also was present in the trial

Table 3.2-18: Grain HLW data on wheat taken from 2 trials with single application that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
TRZAW	DESYZF7782019	ERYSGR*, PUCCRT, PUCCSI	39 - 41	105 (1)		71.5 ab	73.6 a	102.9	73.4 a	102.7	73.8 a	103.2
TRZAW	DESYZF7792019	PUCCSI, SEPTTR	37 - 37	108 (1)		71.4 b	72.3 ab	101.3	72.2 ab	101.1	72.8 a	102.0
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	71.5	102.1		101.9		102.6	
					Min-max	71.4-71.5	101.3-102.9		101.1-102.7		102-103.2	

* non-target disease also was present in the trial

Table 3.2-19: Grain protein content data on wheat taken from 2 trials with single application that generated valid efficacy on target diseases data in Germany

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
TRZAW	DESYZF7782019	ERYSGR*, PUCCRT, PUCCSI	39 - 41	101 (1)		12.0 ab	11.9 ab	99.2	11.8 ab	98.3	12.0 ab	100.0
TRZAW	DESYZF7792019	PUCCSI, SEPTTR	37 - 37	86 (1)		11.0 ab	11.0 ab	100.0	11.0 ab	100.0	10.7 b	97.3
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	11.5	99.6		99.2		98.7	
					Min-max	11-12	99.2-100		98.3-100		97.3-100	

* non-target disease also was present in the trial

On both trials, A12916B applied at the proposed label rate of 1.5 L product/ha gave mainly slight increases in HLW and TGW, compared to the untreated control, but not in protein content of the grain.

Any effects on HLW, TGW of the grain produced by A12916B at the label rate of 1.5 L product/ha were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L product/ha and at lower rate of 1.25 L product/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Grain quality parameter data from 14 efficacy trials in the North-east climatic zone that generated valid data on target diseases in wheat are presented in Table 3.2- (TGW), Table 3.2- (HLW) and Table 3.2- (protein content). These trials were carried out in 2018 and 2019 in Latvia (3 trials) and Poland (11 trials). Of these trials, 13 were carried out on winter wheat and 1 was carried out on spring wheat.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in wheat.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 31-33 to 65 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-20: TGW data on wheat taken from 14 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n	<i>Mean</i>	<i>Mean</i>	% untreated	<i>Mean</i>	% untreated	<i>Mean</i>	% untreated	
TRZAW	LVRIZF7842019	ERYSGR*, LEPTNO*, PUCCRT, PUCCSI, PYRNTR*	39 - 43	88 (1)	44.6	47.8	107.2	48.5	108.7	50.1	112.3	
TRZAW	LVRIZF7852019	ERYSGR*, LEPTNO*, PUCCRT, PYRNTR*	37 - 39	88 (1)	43.2	44.9	103.9	43.4	100.5	44.8	103.7	
TRZAW	PLBCZF1282018	ERYSGR*, PUCCRT, SEPTTR	45 - 45	77 (1)	48.9	51.5	105.3	51.2	104.7			
TRZAW	PLBCZF1292018	ERYSGR*, SEPTTR	41 - 41	105 (1)	41.6	41.4	99.5	40.6	97.6			
TRZAW	PLFPZF1132018	ERYSGR*, PUCCRT, SEPTTR	41 - 43	76 (1)	41.7 ab	41.0 ab	98.3	43.2 a	103.6			
TRZAW	PLSOZF1122018	ERYSGR*, PUCCRT, PYRNTR*, SEPTTR	31 - 33	104 (1)	40.3	42.8	106.2	43.7	108.4			
TRZAW	PLSOZF1132018	ERYSGR*, PUCCRT, PYRNTR*	45 - 47	77 (1)	41.6	43.2	103.8	43.4	104.3			
TRZAW	PLSYZF7912019	SEPTTR	37 - 39	69 (1)	43.4	44.9	103.5	44.8	103.2	45.2	104.1	
TRZAW	PLSYZF7922019	ERYSGR*, PUCCSI, SEPTTR	39 - 41	58 (1)	41.9 b	43.6 ab	104.1	43.4 ab	103.6	43.6 ab	104.1	
TRZAW	PLSYZF7932019	ERYSGR*, PUCCRT, SEPTTR	43 - 45	98 (1)	40.2 b	43.6 a	108.5	43.7 a	108.7	43.8 a	109.0	
TRZAW	PLSYZF7942019	PUCCRT, SEPTTR	43 - 47	84 (1)	37.9	39.5	104.2	38.6	101.8	39.2	103.4	
TRZAW	PLUPZF1092018	PUCCSI, SEPTTR	43 - 47	77 (1)	43.2 bc	45.9 ab	106.3	45.1 ac	104.4			
TRZAW	PLUPZF1102018	PUCCRT, SEPTTR	41 - 45	87 (1)	38.8 ab	38.2 ab	98.5	39.2 ab	101.0			
TRZAS	LVALZF1062018	PUCCSI, PYRNTR*	65 - 65	82 (1)	44.4	44.9	101.1	45.9	103.4			
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 14 trials					Mean	42.3	103.6	103.9		-		
					Min-max	37.9-48.9	98.3-108.5	97.6-108.7		-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials					Mean	41.9	105.2	-		106.1		
					Min-max	37.9-44.6	103.5-108.5	-		103.4-112.3		

* non-target disease also was present in the trial

Table 3.2-21: Grain HLW data on wheat taken from 14 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n	Mean		Mean	% untreated	Mean	% untreated	Mean	% untreated
TRZAW	LVRIZF7842019	ERYSGR*, LEPTNO*, PUCCRT, PUCCSI, PYRNTR*	39 - 43	88 (1)	80.1	81.4	101.6	81.7	102.0	81.5	101.7	
TRZAW	LVRIZF7852019	ERYSGR*, LEPTNO*, PUCCRT, PYRNTR*	37 - 39	88 (1)	76.9	76.2	99.1	76.5	99.5	76.8	99.9	
TRZAW	PLBCZF1282018	ERYSGR*, PUCCRT, SEPTTR	45 - 45	77 (1)	81.1	81.5	100.5	81.9	101.0			
TRZAW	PLBCZF1292018	ERYSGR*, SEPTTR	41 - 41	105 (1)	78.6	76.9	97.8	78.5	99.9			
TRZAW	PLFPZF1132018	ERYSGR*, PUCCRT, SEPTTR	41 - 43	52 (1)	78.6 a	79.6 a	101.3	79.9 a	101.7			
TRZAW	PLSOZF1122018	ERYSGR*, PUCCRT, PYRNTR*, SEPTTR	31 - 33	104 (1)	73.6	73.7	100.1	73.5	99.9			
TRZAW	PLSOZF1132018	ERYSGR*, PUCCRT, PYRNTR*	45 - 47	77 (1)	77.7	78.7	101.3	78.4	100.9			
TRZAW	PLSYZF7912019	SEPTTR	37 - 39	69 (1)	63.3	63.7	100.6	64.1	101.3	64.4	101.7	
TRZAW	PLSYZF7922019	ERYSGR*, PUCCSI, SEPTTR	39 - 41	58 (1)	73.9 b	74.4 ab	100.7	74.6 ab	100.9	74.6 ab	100.9	
TRZAW	PLSYZF7932019	ERYSGR*, PUCCRT, SEPTTR	43 - 45	98 (1)	71.4 b	73.9 a	103.5	74.2 a	103.9	74.0 a	103.6	
TRZAW	PLSYZF7942019	PUCCRT, SEPTTR	43 - 47	74 (1)	72.1	73.4	101.8	72.9	101.1	73.1	101.4	
TRZAW	PLUPZF1092018	PUCCSI, SEPTTR	43 - 47	77 (1)	75.6 a	76.9 a	101.7	76.9 a	101.7			
TRZAW	PLUPZF1102018	PUCCRT, SEPTTR	41 - 45	87 (1)	78.8 a	78.6 a	99.7	78.5 a	99.6			
TRZAS	LVALZF1062018	PUCCSI, PYRNTR*	65 - 65	82 (1)	75.9	74.5	98.2	74.4	98.0			
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 14 trials					Mean	75.5	100.6	100.8	-			
					Min-max	63.3-81.1	97.8-103.5	98.0-103.9	-			
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials					Mean	73.0	101.2	-	101.6			
					Min-max	63.3-80.1	99.1-103.5	-	99.9-103.6			

* non-target disease also was present in the trial

Table 3.2-22: Grain protein content data on wheat taken from 14 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n	Mean		Mean	% untreated	Mean	% untreated	Mean	% untreated
TRZAW	LVRIZF7842019	ERYSGR*, LEPTNO*, PUCCRT, PUCCSI, PYRNTR*	39 - 43	88 (1)		11.9	12.2	102.5	11.7	98.3	12.0	100.8
TRZAW	LVRIZF7852019	ERYSGR*, LEPTNO*, PUCCRT, PYRNTR*	37 - 39	88 (1)		14.2	14.2	100.0	14.5	102.1	14.2	100.0
TRZAW	PLBCZF1282018	ERYSGR*, PUCCRT, SEPTTR	45 - 45	77 (1)		12.6	13.1	104.0	12.8	101.6		
TRZAW	PLBCZF1292018	ERYSGR*, SEPTTR	41 - 41	105 (1)		15.5	14.8	95.5	15.4	99.4		
TRZAW	PLFPZF1132018	ERYSGR*, PUCCRT, SEPTTR	41 - 43	97 (1)		13.0 a	13.5 a	103.8	13.0 a	100.0		
TRZAW	PLSOZF1122018	ERYSGR*, PUCCRT, PYRNTR*, SEPTTR	31 - 33	104 (1)		13.5	13.1	97.0	13.2	97.8		
TRZAW	PLSOZF1132018	ERYSGR*, PUCCRT, PYRNTR*	45 - 47	77 (1)		11.8	11.6	98.3	12.6	106.8		
TRZAW	PLSYZF7912019	SEPTTR	37 - 39	69 (1)		11.4	11.7	102.6	11.5	100.9	11.9	104.4
TRZAW	PLSYZF7922019	ERYSGR*, PUCCSI, SEPTTR	39 - 41	86 (1)		12.2 d	12.6 c	103.3	13.0 ab	106.6	13.0 ab	106.6
TRZAW	PLSYZF7932019	ERYSGR*, PUCCRT, SEPTTR	43 - 45	98 (1)		11.6 b	12.3 a	106.0	12.3 a	106.0	12.4 a	106.9
TRZAW	PLSYZF7942019	PUCCRT, SEPTTR	43 - 47	84 (1)		12.2	12.3	100.8	12.2	100.0	12.3	100.8
TRZAW	PLUPZF1092018	PUCCSI, SEPTTR	43 - 47	77 (1)		12.1	12.2	100.8	12.1	100.0		
TRZAW	PLUPZF1102018	PUCCRT, SEPTTR	41 - 45	87 (1)		14.5	14.6	100.7	15.1	104.1		
TRZAS	LVALZF1062018	PUCCSI, PYRNTR*	65 - 65	82 (1)		17.5	17.4	99.4	17.4	99.4		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 14 trials					Mean	13.1	101.1		101.6		-	
					Min-max	11.4-17.5	95.5-106.0		97.8-106.8		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials					Mean	12.3	102.5		-		103.2	
					Min-max	11.4-14.2	100.0-106.0		-		100.0-106.9	

* non-target disease also was present in the trial

On the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha gave mainly slight increases in HLW, TGW and protein content of the grain, compared to the untreated control, where evaluations were carried out.

Any effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L product/ha and/or at a lower rate of 1.25 L product/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Yield quality on wheat efficacy trials: Overall conclusion from Maritime and North-East EPPO climatic zones

A total of 16 trials carried out in 2018 and 2019 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on wheat also generated data on comparing effects on grain quality (TGW, HLW and protein content). Of these trials, 15 were carried out on winter wheat, 1 was carried out on spring wheat.

Of these 16 trials, 2 were carried out in the Maritime climatic zone (Germany), 14 were carried out in the North-east climatic zone (3 in Latvia, 11 in Poland).

Treatments were applied at single timings made when crop growth stages were within the range of 31-65 (BBCH) across trials.

An overall summary of effects on grain quality parameters of A12916B, compared to those of the standard reference product, across these 16 trials is given in Table 3.2-.

Table 3.2-23: Effects on grain quality of A12916B across efficacy trials on wheat

	EPPO climatic zone	No. of trials		Mean grain quality data (as % of untreated)						
				Untreated	A12916B 1.5 LPR/HA	A12916B compared to Untreated*	A14111B 1.25 LPR/HA	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B 2.5 LPR/HA	A12916B compared to A14111B applied at 2.5 L/HA*
TGW (g)	Maritime	2 of 2	Mean	37.7	109.9	2 trials =	109.9	2 trials =	111.8	2 trials =
			Min-max	35.5-39.9	107-112.7		106.5-113.2		108.3-115.2	
	North-east	14 of 14	Mean	42.3	103.6	2 trials > 1 trial = 11 trials n.d.	103.9	1 trial < 2 trials = 11 trials n.d.	-	-
			Min-max	37.9-48.9	98.3-108.5		97.6-108.7		-	
		6 of 14	Mean	41.9	105.2	-	-	-	106.1	1 trial > 1 trial = 4 trials =
			Min-max	37.9-44.6	103.5-108.5		-		103.4-112.3	
HLW (kg/hL)	Maritime	2 of 2	Mean	71.5	102.1	2 trials =	101.9	2 trials =	102.6	2 trials =
			Min-max	71.4-71.5	101.3-102.9		101.1-102.7		102-103.2	
	North-east	14 of 14	Mean	75.5	100.6	5 trials = 9 trials n.d.	100.8	5 trials = 9 trials n.d.	-	-
			Min-max	63.3-81.1	97.8-103.5		98.0-103.9		-	
		6 of 14	Mean	73.0	101.2	-	-	-	101.6	2 trials = 4 trials n.d.
			Min-max	63.3-80.1	99.1-103.5		-		99.9-103.6	
Protein content (%)	Maritime	2 of 2	Mean	11.5	99.6	2 trials =	99.2	2 trials =	98.7	2 trials =
			Min-max	11-12	99.2-100		98.3-100		97.3-100	
	North-east	14 of 14	Mean	13.1	101.1	5 trials = 9 trials n.d.	101.6	5 trials = 9 trials n.d.	-	-
			Min-max	11.4-17.5	95.5-106.0		97.8-106.8		-	
		6 of 14	Mean	12.3	102.5	-	-	-	103.2	2 trials = 4 trials n.d.
			Min-max	11.4-14.2	100.0-106.0		-		100.0-106.9	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level; n.d. – not defined.

Data generated on efficacy trials carried out across Maritime and North-East EPPO climatic zones demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha in many cases produced slight increases in grain quality as a direct function of efficacy against target diseases on wheat and the loss of grain quality due to disease in the untreated control.

Any increases in quality of the grain produced by A12916B were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or at lower rates.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on wheat.

Conclusion to “Yield and yield parameters from efficacy trials in the presence of challenging pest populations” for wheat.

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals), PP 1/181 (Conduct and reporting of efficacy evaluation trials, including good experimental practice), PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

The applicant presented yield results from 16 efficacy trials with a single application. An average grain yield increase of 15.5% could be achieved by applying the fungicide. There was also increase in green leaf area. In addition, there was no adverse effect on mean hectolitre weight, mean thousand weight and mean protein content in the wheat trials.

It can be concluded to accept the yield data of efficacy trials provided by the applicant to demonstrate the efficacy of the applied plant protection product in wheat.

3.2.3.2 Efficacy against target foliar diseases in spelt

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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Whilst no data is summarised in support of demonstrating the efficacy of A12916B against target diseases in spelt, data generated in trials carried out in wheat shows that single application of A12916B at the proposed label rate of 1.5 L product/ha gives consistently effective control of Septoria leaf spot (SEPTTR), Brown rust (PUCCRE) and Yellow rust (PUCCSI).

Based on very similar disease development patterns and pressure, crop physiology and agronomic practices between wheat and spelt, data generated on SEPTTR, PUCCRE and PUCCSI control on wheat are considered supportive of demonstrating efficacy on spelt.

Therefore, based on presented data in wheat as summarised in 3.2.3.1, it is considered that claims for control of Septoria leaf spot (SEPTTR), Brown rust (PUCCRE) and Yellow rust (PUCCSI) on spelt by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported.

Conclusion to *Septoria leaf spot (SEPTTR)*, *Brown rust (PUCCRE)* and *Yellow rust (PUCCSI)* in spelt

The applicant considers it acceptable to extrapolate efficacy data from wheat to spelt, which is commonly considered as a subspecies of wheat, due to their similarity for this use. The evaluator accepts this extrapolation approach. Furthermore, spelt is regarded as a minor crop in the PL.

3.2.3.3 Efficacy against target foliar diseases in triticales

3.2.3.3.1 Septoria leaf spot (*Zymoseptoria tritici*: SEPTTR)

Syngenta comment	New data from 2020-2021 are provided for the purpose of this National Addendum.
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Efficacy data for Septoria leaf spot (SEPTTR) in triticales are presented from 15 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2019, 2020 and 2021 seasons in Germany (6 trials) and Poland (9 trials). All trials were carried out on winter triticales.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37-59 (BBCH).

The standard reference product used for comparison with A12916B in 2018-2019 trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha. In 2020-2021 trials the standard reference product used for comparison was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-24: Efficacy against SEPTTR on winter triticale taken from 15 trials in Poland and Germany

Pest: <i>Zymoseptoria tritici</i> Application volume: 150-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
TTLWI	DEDSZF3702019	13-May-19	-	45 - 49	24-Jun-19	77 - 83	42 (1)	LEAF2		22.2	a	1.9	c	91.0	3.1	c	86.0	1.8	c	92.0
TTLWI	DEFZZF9092019	23-May-19	0 - 1 %	51 - 53	07-Jun-19	65 - 69	15 (1)	LEAF3		13.4	a	8.4	b	37.0	8.2	b	39.0	7.8	b	42.0
TTLWI	DESYZF9072019	14-May-19	-	45 - 49	01-Jul-19	75 - 77	48 (1)	LEAF2		29.7	a	13.8	b	54.0	15.3	b	48.0	11.2	b	62.0
TTLWI	DESYZF9082019	14-May-19	-	47 - 49	17-Jun-19	73 - 73	34 (1)	LEAF3		11.1	a	4.4	b	60.0	4.5	ab	59.0	6.3	ab	43.0
TTLWI	PLSYZF7532019	01-May-19	0 - 2%	37 - 39	22-May-19	61 - 69	21 (1)	LEAF3		8.4	a	1.6	bc	81.0	2.1	b	76.0	1.5	bc	82.0
TTLWI	PLSYZF7542019	18-May-19	0 - 2.5%	39 - 41	22-Jun-19	75 - 75	35 (1)	LEAF1		5.0	b	1.6	ef	68.0	1.9	de	61.0	1.8	df	65.0
TTLWI	DEDSZF9282021	01-Jun-21	-	49 - 55	24-Jun-21	71 - 73	23 (1)	LEAF 2		10.6	a	3.8	b	63.8				1.7	bc	84.1 ^a
TTLWI	DESYZF6852021	02-Jun-21	-	51 - 59	14-Jul-21	77 - 83	42 (1)	LEAF 2		48.4	a	21	bcd	56.6				16.1	cd	66.8 ^a
TTLWI	PLBCZF8642021	24-May-21	-	39 - 41	30-Jun-21	73 - 75	37 (1)	LEAF 1		28.9	a	2	d	92.9				5.1	bc	82.2 ^a
TTLWI	PLBCZF8652021	20-May-21	-	37 - 39	08-Jun-21	55 - 59	19 (1)	LEAF 3		21.5	a	5.2	c	75.7				0	d	100 ^a
TTLWI	PLDSZF7132020	18-May-20	-	51 - 53	29-Jun-20	83 - 83	42 (1)	LEAF 1		9.7	a	0.1	d	99.1				2.9	bc	69.6 ^a
TTLWI	PLFPZF1072020	07-May-20	-	39 - 41	09-Jun-20	69 - 71	33 (1)	LEAF 4		5.7	a	1.8	b	68.2				2.2	b	61.4 ^a
TTLWI	PLSYZF6762021	31-May-21	-	49 - 51	05-Jul-21	77 - 83	35 (1)	LEAF 1		11.4	a	3.2	b	71.7				1.3	c	88.6 ^a
TTLWI	PLSYZF6772021	13-May-21	-	37 - 37	10-Jun-21	61 - 65	28 (1)	LEAF 2		10	a	1.7	b	82.8				1.7	b	83 ^a
TTLWI	PLSYZF6782021	14-May-21	-	37 - 39	10-Jun-21	61 - 65	27 (1)	LEAF 4		36.8	b	2.5	c	93.2				1.1	c	96.9 ^a
Mean % disease control across 15 trials									Mean	18.2		73.0			-			-		
									Min-max	5-48.4		37-99.1			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 l/ha across 6 trials									Mean	15.0		65.2			61.5			64.3		
									Min-max	5-29.7		37-91			39-86			42-92		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 9 trials									Mean	20.3		78.2			-			81.4		
									Min-max	5.7-48.4		56.6-99.1			-			61.4-100		
FANDANGO 200 EC applied at 1.5 l/ha																				

^a

By summarised assessments across 15 trials with valid data, mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (5.0-48.4%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 73.0% (range 37.0-99.1%) across these 15 trials with valid data.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha, although the differences were not significant on any of the trials, and comparable to that of A14111B applied at the maximum label rate of 2.5 L product/ha, where included in 6 of the trials.

In 2020-2021 trials, the overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly lower than that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha. The differences statistically were not significant in 5 trials out of 9. In 2 trials A12916B performed statistically better and in 2 trials significantly lower effect was achieved.

Overall conclusion

Data generated Germany and Poland clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of SEPTTR on winter triticale.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and comparable to that of A14111B applied at the maximum label rate of 2.5 L product/ha.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly lower than that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Based on presented data, it is therefore considered that claims for control of Septoria leaf spot (SEPTTR) in winter triticale by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported.

Conclusion to *Zymoseptoria tritici* on triticale

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Infection by *Zymoseptoria tritici* was verified at acceptable levels in a total of nine trials carried out between 2019 and 2021 in N-E zone. Those were combined with the results of the six German trials since this is a neighbouring country and considered as valid to Poland

In single application trials, A12916B gave moderate control of SEPTTR with an average 73% recorded about 32 (15 – 48) days after treatment with infection in the untreated ranging from 5.0 to 48.4 % (~15.0%). The efficacy of the product varied from 37.0 to 99.1%. Compared to the efficacy of standard products, which ranged from 61.55% to 81.4% depending on the product used, A12916B performed slightly better than A14111B at 1.25 L/ha but slightly lower than FANDANGO 200 EC applied at 1.5 L/ha.

It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against *Zymoseptoria tritici* on winter triticale.

3.2.3.3.2 Brown rust (*Puccinia recondita*: PUCCRE)

Syngenta comment	No new data are provided for the purpose of this National Addendum. Not relevant data from Maritime zone (France) were deleted. Argumentation for data extrapolation from wheat is provided.
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Efficacy data for Brown rust (PUCCRE) in triticale are presented from 3 efficacy trials in the Maritime climatic zone and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2019 in Germany. All trials were carried out on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 45 to 49 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha.

Table 3.2-25: Efficacy against Puccinia on winter triticale taken from 3 trials in Germany

Pest: <i>Puccinia recondita</i> Application volume: 200-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
TTLWI	DEDSZF3702019	13-May-19	-	45 - 49	24-Jun-19	77 - 83	42 (1)	LEAF1		6.9	a	0.4	c	95.0	0.1	c	98.0	0.2	c	96.0
TTLWI	DESYZF9072019	14-May-19	-	45 - 49	01-Jul-19	75 - 77	48 (1)	LEAF2		6.5	a	0.4	c	94.0	0.1	c	99.0	0.1	c	99.0
TTLWI	DESYZF9082019	14-May-19	-	47 - 49	03-Jul-19	75 - 77	50 (1)	LEAF1		13.1	a	7.1	bc	46.0	6.0	bc	54.0	4.7	c	64.0
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 l/ha across 3 trials									Mean	8.8		78.3			83.7			86.3		
									Min-max	6.5-13.1		46-95			54-99			64-99		

By summarised assessments (42-50 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control was low (6.5-13.1%). This represents a relatively low test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 78.3% (range 46.0-95.0%) across these 3 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha although was slightly lower to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at 2.5 L product/ha, the differences were not statistically significant on any of the trials.

Overall conclusion

Data generated across trials carried out in Germany clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of Puccinia on winter triticale.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha although was slightly lower to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at 2.5 L product/ha, the differences were not statistically significant on any of the trials.

According to the latest Polish guidance document 'Arrangements on making an assessment or comments on plant protection products by authorized entities – efficacy of plant protection products' and its Appendix 2 requirements, Puccinia in winter triticale can be authorised by data extrapolation from winter wheat with additional 1-2 confirmatory trials.

Puccinia control in winter wheat was fully supported by data from Poland and Latvia with efficacy reaching 82.7% control level. With addition of 3 trials from Germany in winter triticale it can be considered that the extrapolation requirement is met.

Based on presented data and extrapolation, it is therefore considered that claim for control of Brown rust (Puccinia) in winter triticale by A12916B applied at the proposed label rate of 1.5 L product/ha is fully supported.

Conclusion to *Puccinia recondita* on triticale

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products). On these trials, treatments were applied at a single timing made when crop growth stages ranged from 45 to 49 (BBCH).

The number of trials (3) conducted in Germany, belonging to the maritime EPPO zone, in 2019 was below the recommendations of the EPPO standard PP 1/226 (number of efficacy trials). Efficacy in these trials against *Puccinia recondita* in triticale was good, with an average of 78.3% (range 46.0-95.0%). Efficacy in winter wheat was also good with an average of 82.7% (disease severity) and these results can be extrapolated.

The Polish guidance states that for *Puccinia recondita*, it is possible to extrapolate from winter wheat to winter triticale because in these crops same diseases can be found and their susceptibility to infection is lower. Therefore, results on major host winter wheat will also support the use on winter triticale.

3.2.3.3 Powdery mildew (*Blumeria graminis*: ERYSGR)

Syngenta comment	New data from 2020-2021 are provided for the purpose of this National Addendum.
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Efficacy data for Powdery mildew (ERYSGR) in triticale are presented from 5 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2019 and 2021 in Germany (3 trials) and in Poland (2 trials). All trials were carried out on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 39 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 1.25 L and 2.5 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-26: Efficacy against ERYSGR on winter triticale taken from 5 trials in Poland and Germany

Pest: <i>Blumeria graminis</i> Application volume: 150-200 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBI N + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm' t	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
TTLWI	DESYZF9072019	14-May-19	0 - 10 %	45 - 49	01-Jul-19	75 - 77	48 (1)	LEAF1		6.0	a	1.8	a	70.0	2.3	a	61.0	2.1	a	66.0
TTLWI	DEFZZF9092019*	23-May-19	0 - 10 %	51 - 53	25-Jun-19	83 - 85	33 (1)	LEAF2		5.3	a	4.2	a	20.0	3.4	a	36.0	3.2	a	41.0
TTLWI	PLSYZF7542019	18-May-19	0 - 2%	39 - 41	15-Jun-19	65 - 65	28 (1)	LEAF3		5.6	b	2.4	c	56.0	2.4	c	56.0	2.2	c	61.0
TTLWI	DESYZF6852021	02-Jun-21	-	51 - 59	14-Jul-21	77 - 83	42 (1)	LEAF 2		8.1	a	0.2	b	97.7				0	b	99.8 ^a
TTLWI	PLSYZF6772021	13-May-21	-	37 - 37	10-Jun-21	61 - 65	28 (1)	LEAF 3		10	a	2.8	b	72.5				1.3	b	87.5 ^a
TTLWI	PLSYZF6782021	14-May-21	-	37 - 39	10-Jun-21	61 - 65	27 (1)	LEAF 4		14.1	a	3.3	b	76.5				0.2	c	98.2 ^a
Mean % disease control across 5 trials									Mean	8.8		74.5			-			-		
									Min-max	5.6-14.1		56-97.7			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L and 2.5 L/ha across 2 trials									Mean	5.8		63.0			58.5			63.5		
									Min-max	5.6-6		56-70			56-61			61-66		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L across 3 trials									Mean	10.7		82.2			-			95.2		
									Min-max	8.1-14.1		72.5-97.7			-			87.5-99.8		

* data from this trial are excluded from the overall mean as efficacy is not representative of that of the treatments, with the standard reference product also not giving statistically significant levels of control of the disease compared to the untreated

^a FANDANGO 200 EC applied at 1.5 l/ha

On 1 of these 3 trials, where A12916B and the standard reference product gave low and non-significant control of ERYSGR compared to the untreated control, this was attributable to limited disease development following application and low and variable levels of disease. Data from this trial are therefore considered not to be representative of protectant and systemic activity of the treatments and are excluded from the overall summary.

By summarised assessments (27-48 DA-A1) on the other trials with valid data, mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control was low (5.6-14.1%). This represents a relatively low test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 74.5% (range 56.0-97.7%) across 5 trials with valid data.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha, although the differences were not statistically significantly different, and comparable to that of the maximum label rate of 2.5 L product/ha. In 2021 trials, the overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was lower than that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha. However, the differences statistically were not significant in 2 trials out of 3.

Overall conclusion

Data generated across trials carried out in Poland and Germany demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of ERYSGR on triticale.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was not statistically significantly different to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha or the maximum label rate of 2.5 L product/ha. A12916B applied at the proposed label rate of 1.5 L product/ha provided decreased activity compared to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Based on presented data, it is therefore considered that claim for control of Powdery mildew (ERYSGR) in winter triticale by A12916B applied at the proposed label rate of 1.5 L product/ha is supported in Poland.

Conclusion to *Blumeria graminis* on triticale

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products). On these trials, treatments were applied at a single timing made when crop growth stages ranged from 39 to 59 (BBCH).

Infection by *Blumeria graminis* was verified at acceptable levels in a total of two trials carried out between 2019 and 2021 in N-E zone. Those were combined with the results of the three German trials since this is a neighbouring country and considered as valid to Poland. The number of valid trials (5) was below the recommendations of the EPPO standard PP 1/226 (number of efficacy trials). Efficacy in these trials against *Blumeria graminis* in triticale was acceptable, with an average of 74.5% (range 56.0-97.7%).

Considering the barley and rye data, the evaluator accepts fewer trials on triticale. The mean control of *Blumeria graminis* on other tested cereals was moderate, which may also support the claim of 'moderate control' of powdery mildew (ERYSGR) on triticale.

3.2.3.3.4 Yellow rust (*Puccinia striiformis f. sp. tritici*: PUCCSI)

Syngenta comment	New data from 2020-2021 and argumentation for data extrapolation are provided for the purpose of this National Addendum.
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Efficacy data for Yellow rust (PUCCSI) in triticale are presented from 3 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2020 and 2021 in Germany (2 trials) and in Poland (1 trial). All trials were carried out on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 55 (BBCH).

The standard reference product used for comparison with A12916B in these trials was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-27: Efficacy against PUCCSI on winter triticale taken from 3 trials in Poland and Germany

Pest: <i>Puccinia striiformis</i> f. sp. <i>tritici</i> Application volume: 200-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed		% sev.		% sev.		% eff.	% sev.		% eff.
TTLWI	DEDSZF9282021	-	01-Jun-21	49 - 55	24-Jun-21	71 - 73	23	LEAF 2		29.8	a	9.6	b	67.9	2.9	b	90.3
TTLWI	PLSYZF6762021	-	31-May-21	49 - 51	05-Jul-21	77 - 83	35	LEAF 2		29	a	4.5	b	84.5	2.1	c	92.9
TTLWI	DESYZF6392020	-	05-May-20	37 - 39	11-Jun-20	65 - 65	37	LEAF 1		10.1	a	1.4	a	86.3	0.9	a	91.3
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L across 3 trials									Mean	23.0		79.6			91.5		
									Min-max	10.1-29.8		67.9-86.3			90.3-92.9		

By summarised assessments (23-37 DA-A1) on the trials with valid data, mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control was low to moderate (10.1-29.8%). This represents an appropriate basis for test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 79.6% (range 67.9-86.3%) across 3 trials with valid data.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was lower than that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha. However, the differences statistically were significant only in 1 trial out of 3.

Overall conclusion

Data generated across trials carried out in Poland and Germany demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of PUCCSI on winter triticales.

A12916B applied at the proposed label rate of 1.5 L product/ha provided decreased activity compared to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

According to the latest Polish guidance document 'Arrangements on making an assessment or comments on plant protection products by authorized entities – efficacy of plant protection products' and its Appendix 2 requirements, PUCCSI in winter triticales can be authorised by data extrapolation from winter wheat with additional 1-2 confirmatory trials.

PUCCSI control in wheat was supported by data from Poland and Germany with efficacy reaching 82.7% control level. With addition of 3 trials in winter triticales from Poland and Germany it can be considered that the extrapolation requirement is met.

Based on presented data and extrapolation, it is therefore considered that claim for control of Yellow rust (PUCCSI) in winter triticales by A12916B applied at the proposed label rate of 1.5 L product/ha is fully supported.

Conclusion to *Puccinia striiformis* on triticales

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

The number of trials (3) conducted in the maritime (2) and north-eastern (1) EPPO zones in 2020-2021 was below the recommendations of the EPPO standard PP 1/226 (number of efficacy trials). The efficacy in these trials against *Puccinia striiformis* on triticales was good, with an average 79.6%. Efficacy on winter wheat was also good with an average 82.7% and these results can be extrapolated.

The Polish guidance states that for *Puccinia striiformis* f. sp. *tritici* (PUCCSI), it is possible to extrapolate from winter wheat to winter triticales because in these crops same diseases can be found and their susceptibility to infection is lower. Therefore, results on major host winter wheat will also support the use on winter triticales.

3.2.3.3.5 Rhynchosporium (*Rhynchosporium secalis*: RHYNSE)

Syngenta comment	New data from 2020 and argumentation for data extrapolation are provided for the purpose of this National Addendum.
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Efficacy data for Leaf blotch (RHYNSE) in triticale are presented from 1 efficacy trial and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. This trial was carried out in 2020 in Germany. The trial was carried out on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatment was applied at a single timing made when crop growth stages ranged from 49 to 52 (BBCH).

The standard reference product used for comparison with A12916B in these trials was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-28: Efficacy against RHYNSE on winter triticale taken from 1 trial in Germany

Pest: <i>Rhynchosporium secalis</i> Application volume: 300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed		% sev.		% sev.		% eff.	% sev.		% eff.
TTLWI	DESYZF6382020	06-May-20	-	49 - 52	20-Jun-20	75 - 75	45	LEAF 1		21.6	b	5.9	c	72.9	11	bc	49.1

At assessment (45 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control was 21.6%. This represents an appropriate basis for test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave a mean level of control of 72.9%.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha. However, the difference statistically was not significant.

Overall conclusion

Data generated in Germany demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective level of control of RHYNSE on winter triticale.

A12916B applied at the proposed label rate of 1.5 L product/ha provided increased activity compared to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

According to the latest Polish guidance document ‘Arrangements on making an assessment or comments on plant protection products by authorized entities – efficacy of plant protection products’ and its Appendix 2 requirements, RHYNSE in winter triticale can be authorised by data extrapolation from winter barley with additional 1-2 confirmatory trials.

RHYNSE control in winter barley was fully supported by data from Poland and Germany with efficacy reaching 67.8% control level. With addition of 1 trial in winter triticale from Germany it can be considered that the extrapolation requirement is met.

Based on presented data and extrapolation, it is therefore considered that claim for control of Leaf blotch (RHYNSE) in winter triticale by A12916B applied at the proposed label rate of 1.5 L product/ha is fully supported.

Conclusion to *Rhynchosporium secalis* on winter triticale

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

Efficacy data for Leaf blotch (RHYNSE) in triticale are presented from 1 efficacy trial and assessed for disease severity. A single application of A12916B at the proposed label rate of 1.5 L product/ha gave a level of control of 72.9%. Efficacy in winter barley was also sufficient for ‘moderate control’ with an average of 67.8% (disease severity) and these results can be extrapolated.

It is considered that the data available from trials received with a single application is sufficient to support an on-label claim of ‘moderate control’ of *Rhynchosporium secalis* on winter triticale in PL.

3.2.3.3.6 Yield (and relevant quality indicators), from efficacy trials (in the presence of challenging pest populations) - triticale

Plant quality

EPPO climatic zone – Maritime

Green leaf area data from 6 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in triticale are presented in Table 3.2-. These trials were carried out in 2019, 2020 and 2021 in Germany. All trials were carried out on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on triticale.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 55 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 L/ha.

Table 3.2-29: Plant quality data (% green leaf area) on triticale taken from 6 trials that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZO LE + FLUOXASTROBIN 150+150	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean		Mean		Mean	
TTLWI	DEDSZF3702019	PUCCRE, SEPTTR	45 - 49	49 (1)		7.5	b	50.0	a	50.0	a	47.5	a		
TTLWI	DEFZZF9092019	ERYSGR, SEPTTR	51 - 53	33 (1)		31.2	a	30.0	a	23.8	a	36.2	a		
TTLWI	DESYZF9072019	ERYSGR, PUCCRE, SEPTTR	45 - 49	48 (1)		70.0	d	85.0	ab	85.0	ab	85.0	ab		
TTLWI	DEDSZF9282021	Various	49 - 55	23 (1)		42.4	a	47.5	a					47.5	a
TTLWI	DESYZF6382020	Various	49 - 52	56 (1)		3.3	c	57.6	a					36	ab
TTLWI	DESYZF6392020	Various	37 - 39	57 (1)		25	b	52.5	a					46.3	a
Mean % green leaf area of A12916B across 6 trials					Mean	29.9		53.8		-		-		-	
					Min-max	3.3-70		30-85		-		-		-	
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 3 trials					Mean	36.2		55.0		52.9		56.2		-	
					Min-max	7.5-70		30-85		23.8-85		36.2-85		-	
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 3 trials					Mean	23.6		52.5		-		-		43.3	
					Min-max	3.3-42.4		47.5-57.6		-		-		36-47.5	

By the summarised assessments on the 6 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control on 5 of the trials, whilst no differences were observed on the other one trial.

The overall increase in green leaf area given by A12916B applied at the proposed label rate of 1.5 L product/ha across all trials was comparable to that given by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at 2.5 L product/ha, and numerically higher compared to FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 L product/ha.

Increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Green leaf area data from 9 efficacy trials in the North-east climatic zone that generated valid data on target diseases in triticale are presented in Table 3.2-. These trials were carried out in 2019, 2020 and 2021 in Poland on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on triticale.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 53 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 1.25 L and 2.5 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 L/ha.

Table 3.2-30: Plant quality data (% green leaf area) on triticale taken from 9 trials that generated efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 150-300 L/ha					Product Name Product Rate	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALO NIL 200 + 1000		FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZO LE + FLUOXASTROBIN 150+150	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean		Mean		Mean	
TTLWI	PLSYZF7532019	SEPTTR	37 - 39	43 (1)		27.5	c	41.2	b	40.0	b	43.8	b		
TTLWI	PLSYZF7542019	ERYSGR, SEPTTR	39 - 41	42 (1)		28.8	d	46.2	a	45.0	a	45.0	a		
TTLWI	PLBCZF8642021	Various	39 - 41	37 (1)		58.1	f	88.8	d					85.2	d
TTLWI	PLBCZF8652021	Various	37 - 39	33 (1)		22.5	d	42.5	c					70.6	a
TTLWI	PLDSZF7132020	Various	51 - 53	42 (1)		68.8	c	83.9	ab					80.2	b
TTLWI	PLFPZF1072020	Various	39 - 41	60 (1)		13.5	d	32.5	a					24.8	ab
TTLWI	PLSYZF6762021	Various	49 - 51	35 (1)		47.5	e	76.3	bcd					78.8	ab
TTLWI	PLSYZF6772021	Various	37 - 37	60 (1)		24.8	b	34.9	ab					32.4	ab
TTLWI	PLSYZF6782021	Various	37 - 39	53 (1)		45	c	52.6	bc					51.3	bc
Mean % green leaf area of A12916B across 9 trials					Mean	37.4		55.4		-		-		-	
					Min-max	13.5-68.8		32.5-88.8		-		-		-	
Direct comparison of A12916B to A14111B applied at 1.25 L and 2.5 L/ha across 2 trials					Mean	28.2		43.7		42.5		44.4		-	
					Min-max	27.5-28.8		41.2-46.2		40-45		43.8-45		-	
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 7 trials					Mean	40.0		58.8		-		-		60.5	
					Min-max	13.5-68.8		32.5-88.8		-		-		24.8-85.2	

At summarised assessments on the 9 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control, and in most cases the differences were statistically significant.

The overall increase in green leaf area given by A12916B at the label rate of 1.5 L product/ha was comparable to those given by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at 2.5 L product/ha and also to FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Plant quality on triticale efficacy trials: Overall conclusion from all EPPO climatic zones

A total of 15 of the trials carried out in 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases in triticale also generated data on green leaf area. All trials were carried out on winter triticale.

Of these 15 trials, 6 were carried out in the Maritime climatic zone (Germany) and 9 were carried out in the North-east climatic zone (Poland).

Single applications of the treatments were made when crop growth stages ranged from 37 to 55 (BBCH) across trials.

An overall summary of effects on green leaf area of A12916B, compared to those of the standard reference product, across these 15 trials is given in Table 3.2-.

Table 3.2-31: Effects on plant quality of A12916B across efficacy trials on triticale

EPPO climatic zone	No. of trials		Mean % green leaf area at final assessment timings								
			Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*
				1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.5 LPR/HA	
Maritime	6 of 6	Mean	29.9	53.8	2 trials = 4 trial >	-	-	-	-	-	-
		Min-max	3.3-70	30-85		-		-		-	
	3 of 6	Mean	36.2	55.0	-	52.9	3 trials =	56.2	3 trials =	-	-
		Min-max	7.5-70	30-85		23.8-85		36.2-85		-	
	3 of 6	Mean	23.6	52.5	-	-	-	-	-	43.3	3 trials =
		Min-max	3.3-42.4	47.5-57.6		-		-		36-47.5	
North-east	9 of 9	Mean	37.4	55.4	2 trials = 7 trials >	-	-	-	-	-	-
		Min-max	13.5-68.8	32.5-88.8		-		-		-	
	2 of 9	Mean	28.2	43.7	-	42.5	2 trials =	44.4	2 trials =	-	-
		Min-max	27.5-28.8	41.2-46.2		40-45		43.8-45		-	
	7 of 9	Mean	40.0	58.8	-	-	-	-	-	60.5	6 trials = 1 trial <
		Min-max	13.5-68.8	32.5-88.8		-		-		24.8-85.2	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across the Maritime and North-east EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increases green leaf area as a direct function of efficacy against target diseases on triticale and adverse effects of the disease in the untreated control.

Increases in green leaf area produced by A12916B were comparable to those produced by the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and 2.5 L product/ha and FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Increases in green leaf area produced by A12916B in these trials can be directly attributed to control of the target diseases and provide further evidence of the efficacy of A12916B against these diseases on triticale.

Crop yield

EPPO climatic zone – Maritime

Crop yield data from 7 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in triticale are presented in Table 3.2-. These trials were carried out in 2019, 2020 and 2021 in Germany. All trials were carried out on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in triticale.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-32: Crop yield data on triticale taken from 7 trials that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
TTLWI	DEDSZF3702019	PUCCRE, SEPTTR	45 - 49	76 (1)		103.1	a	107.3	a	104.0	107.3	a	104.0	105.4	a	102.0			
TTLWI	DEFZZF9092019	ERYSGR, SEPTTR	51 - 53	60 (1)		58.0	ab	59.9	ab	103.0	60.0	ab	104.0	58.3	ab	101.0			
TTLWI	DESYZF9072019	ERYSGR, PUCCRE, SEPTTR	45 - 49	92 (1)		79.7	bc	87.4	ac	110.0	89.9	ac	113.0	88.9	ac	112.0			
TTLWI	DESYZF9082019	PUCCRE, SEPTTR	47 - 49	95 (1)		90.4	ab	88.6	ab	98.0	90.8	ab	100.0	92.0	ab	102.0			
TTLWI	DEDSZF9282021	Various	49 - 55	69 (1)		55	cdef	59.9	bc	108.8							53	def	96.4
TTLWI	DESYZF6392020	Various	37 - 39	79 (1)		74.5	c	84.5	bc	113.4							96.4	ab	129.4
TTLWI	DESYZF6852021	Various	51 - 59	80 (1)		80.6	a	81	a	100.5							79.2	a	98.3
Mean yield following A12916B applied at 1.5 L/ha across 7 trials					Mean	77.3		105.4			-			-			-		
					Min-max	55-103.1		98-113.4			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 4 trials					Mean	82.8		103.8			103.8			104.3			-		
					Min-max	58-103.1		98-110			98-110			101-112			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 3 trials					Mean	70.0		107.6			-			-			108.0		
					Min-max	55-80.6		100.5-113.4			-			-			96.4-129.4		

On the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, although none of the differences were statistically significant.

Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were comparable to those produced by the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L and at a lower rate of 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Crop yield data from 8 efficacy trials in the North-east climatic zone that generated valid data on target diseases in triticale are presented in Table 3.2-. The trials were carried out in 2019, 2020 and 2021 in Poland on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in triticale.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 1.25 L and 2.5 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-33: Crop yield data on winter triticale taken from 8 trials that generated efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZO LE + FLUOXASTROBIN 150+150				
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n	Mean			Mean		% untreated	Mean		% untreated	Mean	% untreated			
TTLWI	PLSYZF7532019	SEPTTR	37 - 39	69 (1)	44.7	c	51.9	ab	116.0	50.5	ab	113.0	51.4	ab	115.0			
TTLWI	PLSYZF7542019	ERYSGR, SEPTTR	39 - 41	59 (1)	50.3	d	63.4	bc	126.0	63.1	bc	125.0	62.0	bc	123.0			
TTLWI	PLBCZF8642021	Various	39 - 41	83 (1)	84.4	c	90.7	ab	107.5							94.6	a	112.1
TTLWI	PLBCZF8652021	Various	37 - 39	85 (1)	56.4	d	68.7	a	121.8							64.1	bc	113.5
TTLWI	PLFPZF1072020	Various	39 - 41	84 (1)	74.1	a	78.1	a	105.4							81.3	a	109.8
TTLWI	PLSYZF6762021	Various	49 - 51	60 (1)	70.8	b	85.4	a	120.5							85.3	a	120.4
TTLWI	PLSYZF6772021	Various	37 - 37	83 (1)	63.3	b	65.3	ab	103.2							65.3	ab	103.2
TTLWI	PLSYZF6782021	Various	37 - 39	80 (1)	43.4	a	42.7	a	98.4							51.1	a	117.7
Mean yield following A12916B applied at 1.5 L/ha across 8 trials					Mean	60.9		112.4		-		-		-				
					Min-max	43.4-84.4		98.4-126		-		-		-				
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	47.5		121.0		119.0		119.0		-				
					Min-max	44.7-50.3		116-126		113-125		115-123		-				
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 6 trials					Mean	65.4		109.5		-		-		112.8				
					Min-max	43.4-84.4		98.4-121.8		-		-		103.2-120.4				

On all the trials, but the one, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, and the differences were statistically significant in 5 out of 8 trials.

Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L and at a lower rate of 1.25 L product/ha and slightly lower to FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Crop yield on triticale efficacy trials: Overall conclusion from all EPPO climatic zones

A total of 15 trials carried out in the period of 2019-2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on triticale also generated data on crop yield. All trials were carried out on winter triticale.

Of these 15 trials, 7 were carried out in the Maritime climatic zone (Germany) and 8 were carried out in the North-east climatic zone (Poland).

Single applications of the treatments were made when crop growth stages ranged from 37 to 59 (BBCH) across trials.

An overall summary of effects on crop yield of A12916B, compared to those of the standard reference product, across these 15 trials is given in Table 3.2-.

Table 3.2-34: Effects on crop yield of A12916B across efficacy trials on triticale

EPPO climatic zone	No. of trials		Mean crop yield (as % of untreated)								
			Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*
				1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.5 LPR/HA	
Maritime	7 of 7	Mean	77.3	105.4	7 trials =	-	-	-	-	-	-
		Min-max	55-103.1	98-113.4		-		-		-	
	4 of 7	Mean	82.8	103.8	-	103.8	4 trials =	104.3	4 trials =	-	-
		Min-max	58-103.1	98-110		98-110		101-112		-	
	3 of 7	Mean	70.0	107.6	-	-	-	-	-	108.0	1 trial > 2 trials =
		Min-max	55-80.6	100.5-113.4		-		-		96.4-129.4	
North-east	8 of 8	Mean	60.9	112.4	5 trials > 3 trials =	-	-	-	-	-	-
		Min-max	43.4-84.4	98.4-126		-		-		-	
	2 of 8	Mean	47.5	121.0	-	119.0	2 trials =	119.0	2 trials =	-	-
		Min-max	44.7-50.3	116-126		113-125		115-123		-	
	6 of 8	Mean	65.4	109.5	-	-	-	-	-	112.8	1 trial > 5 trials =
		Min-max	43.4-84.4	98.4-121.8		-		-		103.2-120.4	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across the Maritime and North-east EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha generally increased crop yield, compared to the untreated control, on the majority of the trials as a direct function of efficacy against target diseases and on 5 of the trials the differences were statistically significant.

Increases in crop yield produced by A12916B were generally comparable to those produced by the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and at lower rates or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Where occurring, increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on triticales.

Yield quality

EPPO climatic zone – Maritime

Grain quality parameter data from 7 of the efficacy trials in the Maritime climatic zone that generated valid data on target diseases in triticales are presented in Table 3.2- (TGW), Table 3.2- (HLW) and Table 3.2- (protein content). These trials were carried out in 2019, 2020 and 2021 in. All trials were carried out on winter triticales.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in triticales.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 55 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-35: TGW data on triticale taken from 7 trials that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreat ed	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
TTLWI	DEDSZF3702019	PUCCRE, SEPTTR	45 - 49	169 (1)		35.5		39.9		112.0	41.8		118.0	42.1		119.0			
TTLWI	DEFZZF9092019	ERYSGR, SEPTTR	51 - 53	60 (1)		42.1	ab	42.8	ab	102.0	41.6	ab	99.0	42.2	ab	100.0			
TTLWI	DESYZF9072019	ERYSGR, PUCCRE, SEPTTR	45 - 49	108 (1)		46.4	ab	48.2	ab	104.0	50.2	ab	108.0	50.2	ab	108.0			
TTLWI	DESYZF9082019	PUCCRE, SEPTTR	47 - 49	95 (1)		39.7	a	40.7	a	102.0	40.2	a	101.0	39.4	a	99.0			
TTLWI	DEDSZF9282021	Various	49 - 55	154 (1)		34.6		34.1		98.6							35.2		101.7
TTLWI	DESYZF6392020	Various	37 - 39	83 (1)		56.2	ab	55.9	ab	99.5							59.4	ab	105.7
TTLWI	DESYZF6852021	Various	51 - 59	80 (1)		43		46.4		107.9							42.4		98.6
Mean TGW following A12916B applied at 1.5 L/ha across 7 trials					Mean	42.5		103.7			-			-			-		
					Min-max	34.6-56.2		98.6-112			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 4 trials					Mean	40.9		105.0			106.5			106.5			-		
					Min-max	35.5-46.4		102-112			99-118			99-119			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 3 trials					Mean	44.6		102.0			-			-			102.0		
					Min-max	34.6-56.2		98.6-107.9			-			-			98.6-105.7		

Table 3.2-36: Grain HLW data on triticale taken from 7 trials that generated valid efficacy on target diseases data in Germany

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
TTLWI	DEDSZF3702019	PUCCRE, SEPTTR	45 - 49	169 (1)		71.7		72.2		101.0	73.1		102.0	73.5		103.0			
TTLWI	DEFZZF9092019	ERYSGR, SEPTTR	51 - 53	60 (1)		72.7	a	74.4	a	102.0	74.5	a	103.0	74.7	a	103.0			
TTLWI	DESYZF9072019	ERYSGR, PUCCRE, SEPTTR	45 - 49	111 (1)		63.3	a	60.2	a	95.0	61.0	a	96.0	59.4	a	94.0			
TTLWI	DESYZF9082019	PUCCRE, SEPTTR	47 - 49	95 (1)		59.0	a	59.6	a	101.0	58.9	a	100.0	59.6	a	101.0			
TTLWI	DEDSZF9282021	Various	49 - 55	69 (1)		59.5	a	59.2	a	99.6							58.9	a	99
TTLWI	DESYZF6392020	Various	37 - 39	83 (1)		66.8	a	66.6	a	99.8							67	a	100.3
TTLWI	DESYZF6852021	Various	51 - 59	80 (1)		56.2	a	55	a	97.8							56.5	a	100.5
Mean HLW following A12916B applied at 1.5 L/ha across 7 trials					Mean	64.2		99.5			-			-			-		
					Min-max	56.2-72.7		95-102			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 4 trials					Mean	66.7		99.8			100.3			100.3			-		
					Min-max	59-72.7		95-102			96-103			94-103			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 3 trials					Mean	60.8		99.1			-			-			99.9		
					Min-max	56.2-66.8		97.8-99.8			-			-			99-100.5		

Table 3.2-37: Grain protein content data on triticale taken from 7 trials that generated valid efficacy on target diseases data in Germany

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150					
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n	<i>Mean</i>		<i>Mean</i>		% untreated		<i>Mean</i>		% untreated		<i>Mean</i>		% untreated		<i>Mean</i>		% untreated	
TTLWI	DEDSZF3702019	PUCCRE, SEPTTR	45 - 49	169 (1)	11.3		11.7		104.0		11.3		100.0		11.9		105.0					
TTLWI	DEFZZF9092019	ERYSGR, SEPTTR	51 - 53	60 (1)	12.8 a		12.5 a		98.0		12.8 a		100.0		12.3 a		96.0					
TTLWI	DESYZF9072019	ERYSGR, PUCCRE, SEPTTR	45 - 49	93 (1)	12.2 a		12.4 a		102.0		12.4 a		101.0		12.4 a		101.0					
TTLWI	DESYZF9082019	PUCCRE, SEPTTR	47 - 49	95 (1)	14.1 a		14.3 a		101.0		14.1 a		100.0		14.1 a		100.0					
TTLW	DEDSZF9282021	Various	49 - 55	154 (1)	11		10.9		99.1									11.3		102.7		
TTLWI	DESYZF6392020	Various	37 - 39	83 (1)	11	a	11	a	100									11.2	a	101.6		
TTLWI	DESYZF6852021	Various	51 - 59	80 (1)		10.7		11.3		105.6								11.3		105.6		
Mean Protein content following A12916B applied at 1.5 L/ha across 7 trials					Mean		11.9		101.4			-			-			-				
					Min-max		10.7-14.1		98-105.6			-			-			-				
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 4 trials					Mean		12.6		101.3			100.3			100.5			-				
					Min-max		11.3-14.1		98-104			100-101			96-105			-				
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 3 trials					Mean		10.9		101.6			-			-			103.3				
					Min-max		10.7-11		99.1-105.6			-			-			101.6-105.6				

On the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha increased HLW, TGW and protein content of the grain, compared to the untreated control.

Effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were comparable to those produced by the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L and at a lower rate of 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Grain quality parameter data from 8 efficacy trials in the North-east climatic zone that generated valid data on target diseases in triticale are presented in Table 3.2- (TGW),

Table 3.2- (HLW) and Table 3.2- (protein content). The trials were carried out in 2019 in Poland on winter triticale.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in triticale.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 1.25 L and 2.5 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-38: TGW data on triticale taken from 8 trials that generated efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n	<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	
TTLWI	PLSYZF7532019	SEPTTR	37 - 39	69 (1)	36.6		37.6		103.0	37.4		102.0	37.1		101.0				
TTLWI	PLSYZF7542019	ERYSGR, SEPTTR	39 - 41	59 (1)	41.1	a	41.6	a	101.0	41.4	a	101.0	41.4	a	101.0				
TTLWI	PLBCZF8642021	Various	39 - 41	116 (1)	32.1		35		109.3							36.8		114.6	
TTLWI	PLBCZF8652021	Various	37 - 39	123 (1)	33.4		35.9		107.4							35.6		106.7	
TTLWI	PLFPZF1072020	Various	39 - 41	95 (1)	37.7	c	38.2	bc	101.4							38.8	bc	103.1	
TTLWI	PLSYZF6762021	Various	49 - 51	71 (1)	35.7	c	42.7	b	119.5							42.9	b	120.2	
TTLWI	PLSYZF6772021	Various	37 - 37	83 (1)	42.3	a	42.3	a	100.1							42.4	a	100.2	
TTLWI	PLSYZF6782021	Various	37 - 39	80 (1)	39.9	a	41.3	a	103.4							41	a	102.6	
Mean TGW following A12916B applied at 1.5 L/ha across 8 trials					Mean	37.4		105.6			-			-			-		
					Min-max	32.1-42.3		100.1-119.5			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	38.9		102.0			101.5			101.0			-		
					Min-max	36.6-41.1		101-103			101-102			101-101			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 6 trials					Mean	101.0		106.9			-			-			107.9		
					Min-max	101-101		100.1-119.5			-			-			100.2-120.2		

Table 3.2-39: Grain HLW data on triticale taken from 7 trials that generated efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		% untreated	Mean		% untreated	Mean		% untreated	Mean		% untreated
TTLWI	PLSYZF7532019	SEPTTR	37 - 39	69 (1)		72.5		73.7		102.0	72.9		101.0	73.6		102.0			
TTLWI	PLSYZF7542019	ERYSGR, SEPTTR	39 - 41	59 (1)		66.2	a	67.5	a	102.0	67.0	a	101.0	67.0	a	101.0			
TTLWI	PLBCZF8652021	Various	37 - 39)	123 (1)		74.8		75.6		101.1							75.5		100.9
TTLWI	PLFPZF1072020	Various	39 - 41	84 (1)		71	a	71.6	a	100.8							71.6	a	100.8
TTLWI	PLSYZF6762021	Various	49 - 51	71 (1)		73.1	b	75.1	a	102.7							75.6	a	103.4
TTLWI	PLSYZF6772021	Various	37 - 37	83 (1)		73.2	b	73.4	a	100.2							73.2	b	100
TTLWI	PLSYZF6782021	Various	37 - 39	80 (1)		70.6	a	69.4	a	98.3							70.5	a	99.8
Mean HLW following A12916B applied at 1.5 L/ha across 7 trials					Mean	71.6		101.0			-			-			-		
					Min-max	66.2-74.8		98.3-102.7			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	69.4		102.0			101.0			101.5			-		
					Min-max	66.2-72.5		102-102			101-101			101-102			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 5 trials					Mean	72.5		100.6			-			-			101.0		
					Min-max	70.6-74.8		98.3-102.7			-			-			99.8-103.4		

Table 3.2-40: Grain protein content data on triticale taken from 7 trials that generated efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOL E + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
TTLWI	PLSYZF7532019	SEPTTR	37 - 39	131 (1)		10.6		10.2		96.0	10.3		97.0	10.3		97.0			
TTLWI	PLSYZF7542019	ERYSGR, SEPTTR	39 - 41	89 (1)		10.2	d	10.6	bc	103.9	10.7	ac	105.0	10.7	ac	105.0			
TTLWI	PLBCZF8652021	Various	37 - 39	123 (1)		10.8		11		101.9							10.9		100.9
TTLWI	PLFPZF1072020	Various	39 - 41	103 (1)		12.2		11.6		95.1							13.8		113.1
TTLWI	PLSYZF6762021	Various	49 - 51	114 (1)		10.9	a	10.8	a	99.1							10.8	a	98.9
TTLWI	PLSYZF6772021	Various	37 - 37	83 (1)		11.8	a	11.7	a	99.8							11.8	a	100.4
TTLWI	PLSYZF6782021	Various	37 - 39	135 (1)		12.3	a	12.3	a	99.8							12.3	a	100
Mean Protein content following A12916B applied at 1.5 L/ha across 7 trials					Mean	11.3		99.4			-			-			-		
					Min-max	10.2-12.3		95.1-103.9			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha and 2.5 L/ha across 2 trials					Mean	10.4		100.0			101.0			101.0			-		
					Min-max	10.2-10.6		96-103.9			97-105			97-105			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 5 trials					Mean	11.6		99.1			-			-			102.7		
					Min-max	10.8-12.3		95.1-101.9			-			-			98.9-113.1		

A12916B applied at the proposed label rate of 1.5 L product/ha increased TGW in all 8 trials, HLW in 6 out of 7 trials and protein content of the grain in 2 of the 7 trials, compared to the untreated control.

Effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were comparable to those produced by the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L and at a lower rate of 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Yield quality on triticales efficacy trials: Overall conclusion from Maritime and North-East EPPO climatic zones

A total of 15 trials carried out in 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on triticales also generated data on comparing effects on grain quality (TGW, HLW and protein content). All of these trials were carried out on winter triticales.

Of these 15 trials, 7 were carried out in the Maritime climatic zone (Germany) and 8 were carried out in the North-east climatic zone (Poland).

Single applications of the treatments were made when crop growth stages ranged from 37 to 55 (BBCH) across trials.

An overall summary of effects on grain quality parameters of A12916B, compared to those of the standard reference product, across these 15 trials is given in Table 3.2-.

Table 3.2-41: Effects on grain quality of A12916B across efficacy trials on triticale

	EPPO climatic zone	No. of trials		Mean grain quality data (as % of untreated)								
				Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*
					1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.5 LPR/HA	
TGW (g)	Maritime	7 of 7	Mean	42.5	103.7	4 trials = 3 trials n.d.	-	-	-	-	-	-
			Min-max	34.6-56.2	98.6-112		-	-	-	-	-	-
		4 of 7	Mean	40.9	105.0	-	106.5	3 trials = 1 trial n.d.	106.5	3 trials = 1 trial n.d.	-	-
			Min-max	35.5-46.4	102-112		99-118		99-119		-	
		3 of 7	Mean	44.6	102.0	-	-	-	-	-	102.0	1 trial = 2 trials n.d.
			Min-max	34.6-56.2	98.6-107.9		-		-		98.6-105.7	
	North-east	8 of 8	Mean	37.4	105.6	1 trial > 4 trials = 3 trials n.d.	-	-	-	-	-	-
			Min-max	32.1-42.3	100.1-119.5		-		-		-	
		2 of 8	Mean	38.9	102.0	-	101.5	1 trial = 1 trial n.d.	101.0	1 trial = 1 trial n.d.	-	-
			Min-max	36.6-41.1	101-103		101-102		101-101		-	
		6 of 8	Mean	101.0	106.9	-	-	-	-	-	107.9	4 trials = 2 trials n.d.
			Min-max	101-101	100.1-119.5		-		-		100.2-120.2	
HLW (kg/hL)	Maritime	7 of 7	Mean	64.2	99.5	6 trials = 1 trial n.d.	-	-	-	-	-	-
			Min-max	56.2-72.7	95-102		-		-		-	
		4 of 7	Mean	66.7	99.8	-	100.3	3 trials = 1 trial n.d.	100.3	3 trials = 1 trial n.d.	-	-
			Min-max	59-72.7	95-102		96-103		94-103		-	
		3 of 7	Mean	60.8	99.1	-	-	-	-	-	99.9	3 trials =
			Min-max	56.2-66.8	97.8-99.8		-		-		99-100.5	
	North-east	7 of 7	Mean	71.6	101.0	2 trials > 3 trials = 2 trials n.d.	-	-	-	-	-	-
			Min-max	66.2-74.8	98.3-102.7		-		-		-	
		2 of 7	Mean	69.4	102.0	-	101.0	1 trial = 1 trial n.d.	101.5	1 trial = 1 trial n.d.	-	-
			Min-max	66.2-72.5	102-102		101-101		101-102		-	
		5 of 7	Mean	72.5	100.6	-	-	-	-	-	101.0	1 trial > 3 trials = 1 trial n.d.
			Min-max	70.6-74.8	98.3-102.7		-		-		99.8-103.4	
Protein content (%)	Maritime	7 of 7	Mean	11.9	101.4	4 trials = 3 trials n.d.	-	-	-	-	-	-
			Min-max	10.7-14.1	98-105.6		-		-		-	
		4 of 7	Mean	12.6	101.3	-	100.3	3 trials = 1 trial n.d.	100.5	3 trials = 1 trial n.d.	-	-
			Min-max	11.3-14.1	98-104		100-101		96-105		-	
		3 of 7	Mean	10.9	101.6	-	-	-	-	-	103.3	1 trial = 2 trials n.d.
			Min-max	10.7-11	99.1-105.6		-		-		101.6-105.6	
	North-	7 of 7	Mean	11.3	99.4	1 trial >	-	-	-	-	-	-

	east		Min-max	10.2-12.3	95.1-103.9	3 trials = 3 trials n.d.	-		-		-	
		2 of 7	Mean	10.4	100.0	-	101.0	1 trial = 1 trial n.d.	101.0	1 trial = 1 trial n.d.	-	-
			Min-max	10.2-10.6	96-103.9		97-105		97-105		-	
		5 of 7	Mean	11.6	99.1	-	-	-	-	-	102.7	3 trials = 2 trials n.d.
			Min-max	10.8-12.3	95.1-101.9		-		-		98.9-113.1	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level; n.d. – not defined.

Data generated on efficacy trials carried out across the Maritime and North-east EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha generally increased grain quality as a direct function of efficacy against target diseases on triticale and the loss of grain quality due to disease in the untreated control.

Increases in quality of the grain produced by A12916B were comparable to those produced by the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and a lower rate or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on triticale.

Conclusion to “Yield and yield parameters from efficacy trials in the presence of challenging pest populations” for triticale

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals), PP 1/181 (Conduct and reporting of efficacy evaluation trials, including good experimental practice), PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

The applicant presented yield results from 15 efficacy trials with a single application. An average grain yield increase of 9.0% could be achieved by applying the fungicide. There was also increase in green leaf area. In addition, there was no adverse effect on mean hectolitre weight, mean thousand weight and mean protein content in the triticale trials.

It can be concluded to accept the yield data of efficacy trials provided by the applicant to demonstrate the efficacy of the applied plant protection product in triticale.

3.2.3.4 Efficacy against target foliar diseases in barley

3.2.3.4.1 Leaf blotch (*Rhynchosporium secalis*: RHYNSE)

Syngenta comment	New data from 2020-2021 are provided for the purpose of this National Addendum. Not relevant data from Maritime, Mediterranean and South-east zones were deleted.
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Efficacy data for Leaf blotch (RHYNSE) in barley are presented from 9 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-4342. These trials were carried out in 2018- 2021 in Germany (6 trials) and Poland (3 trials). All trials were carried out on winter barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Treatments were applied when crop growth stages ranged from 33 to 52 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha. In 2021 trials, the standard reference product used for comparison was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Table 3.2-43: Efficacy against RHYNSE on winter barley taken from 9 trials with single application in Germany and Poland

Pest: <i>Rhynchosporium secalis</i> Application volume: 230-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONI L 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
HORVW	DEDSZF1722018	11-May-18	1 - 2 %	39 - 49	05-Jun-18	77 - 83	25 (1)	LEAF1		8.4	a	3.9	bc	54.0	2.6	cd	69.0			
HORVW	DEDSZF2832018	02-May-18	0 - 12%	39 - 49	24-May-18	73 - 75	22 (1)	LEAF2		5.5	a	2.9	ab	48.0	1.8	ab	67.0			
HORVW	DEDSZF2972018	03-May-18	0 - 5%	49 - 49	06-Jun-18	61 - 69	34 (1)	LEAF2		31.9	a	9.1	b	72.0	6.0	b	81.0			
HORVW	PLSOZF1142018	30-Apr-18	-	n/d	02-Jun-18	77 - 83	33 (1)	LEAF1		10.3	a	3.8	bd	64.0	4.0	bd	61.0			
HORVW	PLSOZF7292019	25-Apr-19	0 - 3 %	33 - 33	28-May-19	69 - 71	33 (1)	LEAF3		6.8	a	0.0	d	100	0.2	cd	96.0	0.2	cd	96.0
HORVW	PLUPZF1112018	16-May-18	0 - 5.5 %	49 - 52	15-Jun-18	75 - 83	30 (1)	LEAF1		11.9	b	4.0	f	66.0	6.6	de	45.0			
HORVW	DEDS0F2892020	06-May-20	-	39 - 49	10-Jun-20	73 - 75	35 (1)	LEAF2		23.4	a	11.1	ab	52.6	2.5	bcd	89.4	1.1	cd	95.4
HORVW	DEBCZF8512021	06-May-21	-	39 - 39	08-Jun-21	73 - 75	33 (1)	LEAF3		17.3	a	2.5	bc	85.7				1	bc	94.2 ^a
HORVW	DEBCZF8532021	06-May-21	-	39 - 45	27-May-21	61 - 69	21 (1)	LEAF3		10.3	a	3.3	b	67.8				2.7	b	73.2 ^a
Mean % disease control across 9 trials									Mean	14.0		67.8			-			-		
									Min-max	5.5-31.9		48-100			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 7 trials									Mean	14.0		65.2			72.6			-		
									Min-max	5.5-31.9		48-100			45-96			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 2 trials									Mean	15.1		76.3			-			95.7		
									Min-max	6.8-23.4		52.6-100			-			95.4-96		
Direct comparison of A12916B to FANDANGO 200 EC at 1.25 l/ha across 2 trials									Mean	13.8		76.8			-			83.7		
									Min-max	10.3-17.3		67.8-85.7			-			73.2-94.2		
^a	FANDANGO			200			EC		applied				at		1.25				l/ha	

By summarised assessments (21-35 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (5.5-31.9%) on all trials. This represents a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 67.8% (range 48.0-100%) across 9 trials with valid data.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was lower than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at the maximum label rate of 2.5 L product/ha, although the differences were significant only in 1 trial out of 7 and in 1 trial out of 2, respectively. In 2020-2021 trials, the overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly lower than that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha. The differences statistically were not significant in any of the 2 trials.

Overall conclusion

Data generated across trials carried out in Poland and Germany clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of RHYNSE on winter barley.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was generally lower to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and/or the maximum label rate of 2.5 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Based on presented data, it is therefore considered that claim for control of Leaf blotch (RHYNSE) on winter barley by A12916B applied at the proposed label rate of 1.5 L product/ha is supported.

Conclusion to *Rhynchosporium secalis* on barley

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Efficacy data for Leaf blotch (RHYNSE) in barley are presented from 9 efficacy trials and assessed for disease severity (% of infected area, per leaf level). These trials were carried out in 2018- 2021 in Germany (6 trials) and Poland (3 trials). All trials were carried out on winter barley. Treatments were applied when crop growth stages ranged from 33 to 52 (BBCH).

On winter barley summarised assessments showed very variable results with a mean severity reduction of 67.8% (range 48.0-100%, untreated mean 14.0% range 5.5-31.9%)

Based on the level of control reported in these trials, a claim of 'moderate control' (60 to 80% reduction) of Leaf blotch (*Rhynchosporium secalis*) in barley is considered appropriate.

3.2.3.4.2 Net blotch (*Pyrenophora teres*: PYRNTE)

Syngenta comment	New data from 2018-2023 are provided for the purpose of this National Addendum in spring barley. Not relevant data from Maritime, Mediterranean and South-east zones were deleted as North-east data fully support the use in winter barley.
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Efficacy data for Net blotch (PYRNTE) in barley are presented from 21 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2- for winter barley and in Table 3.2-45 for spring barley. Trials in winter barley were carried out in 2018 and 2019 in Poland (10 trials). Trials in spring barley (11 trials) were carried out in 2018-2023 in Germany (1 trial), Lithuania (3 trials), Latvia (4 trials), Czech Republic (2 trials) and Estonia (1 trial).

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

In winter barley treatments were applied at a single timing made when crop growth stages ranged from 32 to 52 (BBCH), in spring barley - when crop growth stages ranged from 37 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha. In 2021-2023 trials the standard reference product used for comparison was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha or HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 l/ha.

Table 3.2-44: Efficacy against PYRNTE on winter barley taken from 10 trials in Poland

Pest: <i>Pyrenophora teres</i> Application volume: 150-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessmen t date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
HORVW	PLBCZF1302018	27-Apr-18	0-0.7%	41 - 45	08-Jun-18	75 - 77	42 (1)	LEAF2		23.1	a	3.7	df	84.0	4.6	de	80.0			
HORVW	PLSOZF1142018	30-Apr-18	-	n/d	02-Jun-18	77 - 83	33 (1)	LEAF1		5.2	a	0.8	b	86.0	1.0	ab	81.0			
HORVW	PLSOZF1152018	27-Apr-18	-	32 - 32	02-Jun-18	77 - 83	36 (1)	LEAF1		6.9	a	2.2	a	68.0	4.2	a	38.0			
HORVW	PLSOZF7292019	25-Apr-19	1 - 5 %	33 - 33	28-May-19	69 - 71	33 (1)	LEAF3		14.4	a	1.5	d	90.0	1.2	d	91.0	2.6	d	82.0
HORVW	PLSTZF1072018	09-May-18	-	49 - 51	08-Jun-18	83 - 87	30 (1)	LEAF1		8.0	a	3.3	e	59.0	2.9	fg	63.0			
HORVW	PLSYZF7302019	30-Apr-19	0 - 3 %	37 - 39	10-Jun-19	73 - 77	41 (1)	LEAF1		5.9	a	2.9	c	52.0	4.2	b	28.0	2.8	c	54.0
HORVW	PLSYZF7312019	29-Apr-19	1 - 3 %	41 - 43	06-Jun-19	75 - 75	38 (1)	LEAF1		20.9	b	3.2	ef	84.0	8.8	cd	58.0	3.6	ef	83.0
HORVW	PLSYZF7322019	09-May-19	0 - 10 %	47 - 51	13-Jun-19	75 - 83	35 (1)	LEAF1		6.9	a	1.1	b	85.0	1.4	b	80.0	1.2	b	83.0
HORVW	PLSYZF7342019	25-Apr-19	2 - 3 %	39 - 43	06-Jun-19	75 - 75	42 (1)	LEAF1		10.4	a	0.9	b	91.0	1.9	b	82.0	0.6	b	94.0
HORVW	PLUPZF1112018	16-May-18	0 - 10 %	49 - 52	15-Jun-18	75 - 83	30 (1)	LEAF1		15.3	b	5.9	df	61.0	6.6	df	57.0			
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 10 trials									Mean	11.7		76.0			65.8			-		
									Min-max	5.2-23.1		52-91			28-91			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 5 trials									Mean	11.7		80.4			-			79.2		
									Min-max	5.9-20.9		52-91			-			54-94		

Table 3.2-45: Efficacy against PYRNTE on spring barley taken from 11 trials in Germany, Czech Republic, Lithuania, Latvia and Estonia

Pest: <i>Pyrenophora teres</i> Application volume: 200-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessment't	Days after appl'n	Part assessed				% sev.	% sev.	% eff.	% sev.	% eff.	% sev.	% eff.	% sev.	% eff.
HORVS	LTAKZF1132018	18-Jun-18	1 - 1 %	51 - 59	16-Jul-18	77 - 83	28 (1)	LEAF1		8.6	a	3.5	b	60.0	3.2	b	63.0			
HORVS	LTAKZF7222019	13-Jun-19	0 - 1 %	49 - 51	16-Jul-19	77 - 83	33 (1)	LEAF2		11.5	a	1.8	c	84.0	2.7	c	77.0	2.3	c	80.0
HORVS	LTAKZF7232019	19-Jun-19	1 - 5 %	49 - 51	18-Jul-19	77 - 83	29 (1)	LEAF2		9.8	a	4.6	a	53.0	5.6	a	43.0	7.3	a	26.0
HORVS	LVALZF1072018	13-Jun-18	5 - 10 %	39 - 39	19-Jul-18	75 - 75	36 (1)	LEAF2		22.2	a	3.8	fh	83.0	6.1	eg	72.0			
HORVS	LVLVZF1082018	27-Jun-18	-	39 - 43	25-Jul-18	75 - 75	28 (1)	LEAF2		23.8	a	5.8	c	76.0	8.1	bc	66.0			
HORVS	LVRIZF7212019	28-Jun-19	1 - 15 %	51 - 59	17-Jul-19	77 - 83	19 (1)	LEAF1		28.1	ab	18.1	c	36.0	15.6	c	44.0	13.8	c	51.0
HORVS	LVALZF1092018	28-Jun-18	60 - 100%	51 - 51	12-Jul-18	71 - 73	14 (1)	LEAF4		7.5	ab	4.1	b	46.0	4.6	b	39.0			
HORVS	DESYZF6352021	14-Jun-21	-	47 - 51	01-Jul-21	75 - 77	17 (1)	LEAF 2		7.8	a	0.1	bc	99				0	c	100 ^a
HORVS	CZBYTF1132022	31-May-22	-	37 - 39	12-Jul-22	77-77	42 (1)	LEAF 4		7.5	a	1	b	86.7				1.4	b	81.7 ^b
HORVS	CZPRTF1112023	30-May-23	-	37 - 39	19-Jun-23	71 - 73	20 (1)	LEAF 3		9.1	a	1.8	b	80.3				1.7	b	80.9 ^b
HORVS	EESAZF1102018	28-Jun-18	-	37 - 37	19-Jul-18	61 - 65	21 (1)	LEAF 3		6.2	a	0.5	d	92.2	1.1	d	82.7			
Mean % disease control across 11 trials									Mean	12.9		72.4			-			-		
									Min-max	6.2-28.1		36-99			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 8 trials									Mean	14.7		66.3			60.8			-		
									Min-max	6.2-28.1		36-92.2			39-82.7			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials									Mean	16.5		57.7			-			54.7		
									Min-max	9.8-28.1		36-84			-			43-77		
Direct comparison of HUTTON FORTE 280 EC to A14111B applied at 1.5 L/ha across 2 trials									Mean	8.3		83.5			-			81.3		
									Min-max	7.5-9.1		80.3-86.7			-			80.9-81.7		
Direct comparison of FANDANGO 200 EC to A14111B applied at 1.25 L/ha across 1 trial									Mean	7.8		99			-			100		
									Min-max	-		-			-			-		

^a FANDANGO 200 EC applied at 1.25 l/ha

^b HUTTON FORTE 280 EC applied at 1.5 l/ha

On **winter barley**, by summarised assessments (30-42 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (5.2-23.1%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 76.0% (range 52.0-91.0%) across 10 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and comparable to that of A14111B applied at the maximum label rate of 2.5 L product/ha, where included in 5 of the trials.

On **spring barley**, by summarised assessments (14-42 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (6.2-28.1%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 72.4% (range 36.0-99.0%) across 11 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across 8 trials and comparable to that of A14111B applied at the maximum label rate of 2.5 L product/ha across 3 trials, HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha across 2 trials and FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 L/ha across 1 trial.

Overall conclusion

Data generated across trials carried out in Poland, Germany, Czech Republic, Lithuania, Latvia and Estonia clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of PYRNTE both on winter and spring barley.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and comparable to that of A14111B applied the maximum label rate of 2.5 L product/ha, HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha and FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 L/ha.

Based on presented data, it is therefore considered that claims for control of Net blotch (PYRNTE) on winter and spring barley by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported in Poland.

Conclusion to *Pyrenophora teres* on barley

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Trials in winter barley were carried out in 2018 and 2019 in Poland (10 trials). Trials in spring barley (11 trials) were carried out in 2018-2023 in Germany (1 trial), Lithuania (3 trials), Latvia (4 trials), Czech Republic (2 trials) and Estonia (1 trial). In winter barley treatments were applied at a single timing made when crop growth stages ranged from 32 to 52 (BBCH), in spring barley - when crop growth stages ranged from 37 to 59 (BBCH).

On winter barley summarised assessments showed very variable results with a mean severity reduction of 76.0% (range 52-91%, untreated mean 11.7% range 5.2-23.1%)

On spring barley, summarised assessments showed very variable results with a mean severity reduction of

72.4% (range 36.0-99.0%, untreated mean 12.9%, range 6.2-28.1%).

It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against Net blotch (PYRNTE) on barley.

3.2.3.4.3 Brown rust (*Puccinia hordei*: PUCCHD)

Syngenta comment	New data from 2020-2023 are provided for the purpose of this National Addendum. Regrouping of the available data was carried out according to the national requirements. Not relevant data from Maritime, Mediterranean and South-east zones were deleted.
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Efficacy data for Brown rust (PUCCHD) in barley are presented from 16 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2- for winter barley and in Table 3.2-47 for spring barley. Trials in winter barley (8 trials) were carried out in 2018, 2019 and 2020 in Germany (5 trials) and Poland (3 trials). Trials in spring barley (8 trials) were carried out in 2018, 2019 and 2023 in Poland (3 trials), Lithuania (1 trial), Latvia (3 trials) and Czech Republic (1 trial).

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

In winter barley treatments were applied at a single timing made when crop growth stages ranged from 35 to 51 (BBCH), in spring barley when crop growth stages ranged from 32 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha. In 2020-2023 trials the standard reference product used for comparison was HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 l/ha.

Table 3.2-46: Efficacy against PUCCHD on winter barley taken from 8 trials with single application in Poland and Germany

Pest: <i>Puccinia hordei</i> Application volume: 150-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
HORVW	DEDSZF1272019	03-May-19	1 - 25%	37 - 45	24-Jun-19	77 - 85	52 (1)	LEAF1		79.1	a	49.4	d	38.0	49.7	d	37.0	32.8	f	58.0
HORVW	DEDSZF1982019	30-Apr-19	-	43 - 49	17-Jun-19	77 - 85	48 (1)	LEAF1		5.2	a	0.8	b	86.0	1.4	b	74.0	0.8	b	86.0
HORVW	DEDSZF2972018	03-May-18	0 - 4%	49 - 49	06-Jun-18	61 - 69	34 (1)	LEAF1		74.7	a	30.6	bc	59.0	32.2	bc	57.0			
HORVW	PLSYZF7322019	09-May-19	-	47 - 51	13-Jun-19	75 - 83	35 (1)	LEAF1		7.0	a	0.8	b	89.0	1.6	b	78.0	1.0	b	86.0
HORVW	PLSYZF7332019	01-May-19	0 - 5 %	37 - 41	22-May-19	61 - 69	21 (1)	LEAF1		16.2	b	3.1	e	81.0	5.0	d	69.0	1.4	f	91.0
HORVW	PLSYZF7342019	25-Apr-19	-	39 - 43	06-Jun-19	75 - 75	42 (1)	LEAF1		7.6	a	1.6	cd	79.0	2.6	bd	66.0	1.0	d	87.0
HORVW	DEDS0F3742020	28-Apr-20	-	35 - 39	02-Jun-20	71 - 73	35 (1)	LEAF3		20.6	a	2.2	bcd	89.3	0	e	100	0.4	de	98.2
HORVW	DEDS0F9272020	05-May-20	-	41 - 51	26-May-20	71 - 75	21 (1)	LEAF2		12.4	a	2.6	b	79.3	2.2	b	82.6	2.6	b	78.7
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 8 trials									Mean	27.9		75.1			70.5			-		
									Min-max	5.2-79.1		38-89.3			37-100			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 7 trials									Mean	21.2		77.4			-			83.6		
									Min-max	5.2-79.1		38-89.3			-			58-98.2		

Table 3.2-47: Efficacy against PUCCHD on spring barley taken from 8 trials in Poland, Lithuania, Latvia and Czech Republic

Pest: <i>Puccinia hordei</i> Application volume: 200-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
HORVS	LTAKZF1132018	18-Jun-18	-	51 - 59	16-Jul-18	77 - 83	28 (1)	LEAF2		9.6	ab	0.6	eg	94.0	1.2	e	88.0			
HORVS	LVALZF1072018	13-Jun-18	-	39 - 39	19-Jul-18	75 - 75	36 (1)	LEAF2		12.5	a	0.3	d	98.0	1.2	d	90.0			
HORVS	LVLVZF1082018	27-Jun-18	-	39 - 43	25-Jul-18	75 - 75	28 (1)	LEAF2		7.9	a	0.9	b	89.0	1.0	b	87.0			
HORVS	LVRIZF7212019	28-Jun-19	-	51 - 59	17-Jul-19	77 - 83	19 (1)	LEAF2		15.8	b	1.5	d	90.0	2.4	d	85.0	1.6	d	90.0
HORVS	PLAGZF7262019	31-May-19	-	39 - 51	01-Jul-19	77 - 83	31 (1)	LEAF1		5.9	a	0.4	bc	94.0	0.4	bc	93.0	0.2	bc	96.0
HORVS	PLBCZF1312018	29-May-18	0 - 5 %	39 - 41	25-Jun-18	75 - 83	27 (1)	LEAF2		32.2	a	0.0	c	100.0	0.0	c	100.0			
HORVS	PLULZF1022018	30-May-18	8.6-23%	49 - 51	03-Jul-18	85 - 87	34 (1)	LEAF1		16.0	a	1.3	ef	92.0	1.0	f	93.0			
HORVS	CZKUTF1052023	25-May-23	-	32 - 33	26-Jun-23	75 - 75	32 (1)	LEAF 3		6.9	a	0.4	cd	94.7				0.6	bc	91.3 ^a
Mean % disease control across 8 trials									Mean	13.4		94.0			-			-		
									Min-max	5.9-32.2		89-100			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 7 trials									Mean	14.3		93.9			90.9			-		
									Min-max	5.9-32.2		89-100			85-100			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 2 trials									Mean	10.9		92.0			-			93.0		
									Min-max	5.9-15.8		90-94			-			90-96		
Direct comparison of A12916B to HUTTON FORTE 280 EC applied at 1.5 L/ha across 1 trial									Mean	6.9		94.7			-			91.3		
									Min-max			-			-			-		

^a HUTTON FORTE 280 EC applied at 1.5 L/ha

On **winter barley**, by summarised assessments (21-48 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to very high (5.2-79.1%) between trials. This represents up to a severe test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 75.1% (range 38-89.3%) across 8 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and slightly lower to that of A14111B applied at the maximum label rate of 2.5 L product/ha, where included in 7 of the trials.

On **spring barley**, by summarised assessments (19-36 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (5.9-32.2%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 94.0% (range 89.0-100.0%) across 8 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was comparable to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across 7 trials, to that of A14111B applied at the maximum label rate of 2.5 L product/ha across 2 trials and to HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha across 1 trial.

Overall conclusion

Data generated across trials carried out in Poland, Germany, Czech Republic, Lithuania and Latvia clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of PUCCHD both on winter and spring barley.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and slightly lower to that of A14111B applied the maximum label rate of 2.5 L product/ha in winter barley. In spring barley, A12916B applied at the proposed label rate of 1.5 L product/ha was comparable to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at the maximum label rate of 2.5 L product/ha and to HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha.

Based on presented data, it is therefore considered that claims for control of Brown rust (PUCCHD) on winter and spring barley by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported in Poland.

Conclusion to *Puccinia hordei* on barley

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Efficacy data for Brown rust (PUCCHD) in barley was presented from 16 efficacy trials and assessed for disease severity for winter and spring barley. Trials in winter barley (8 trials) were carried out in 2018, 2019 and 2020 in Germany (5 trials) and Poland (3 trials). Trials in spring barley (8 trials) were carried out in 2018, 2019 and 2023 in Poland (3 trials), Lithuania (1 trial), Latvia (3 trials) and Czech Republic (1 trial). In winter barley treatments were applied at a single timing made when crop growth stages ranged

from 35 to 51 (BBCH), in spring barley when crop growth stages ranged from 32 to 59 (BBCH).
On winter barley, A12916B gave reasonable control of brown rust with an average 75.1% recorded 21 – 52 (~36) DA-A1, with infection ranging from 5.2 to 79.1 % (~27.9%) in the untreated. The efficacy of the product varied from 38.0 to 89.3%. Standard applied at 2.5 l/ha performed slightly better with average control of disease of 83.5% (range 58.0 – 98.2%)
On spring barley, A12916B gave reasonable control of brown rust with an average 94.0% recorded 19 – 36 (~29.3) DA-A1, with infection ranging from 5.9 to 32.2 % (~13.4%) in the untreated. The efficacy of the product varied from 89.0 to 100%. Standard product performed similar with average control of disease of 90.9% (range 85.0 – 100%)
It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against *Brown rust (PUCCHD)* on barley.

3.2.3.4.4 *Ramularia* leaf spot (*Ramularia collo-cygni*: RAMUCC)

Syngenta comment	New data from 2020-2023 are provided for the purpose of this National Addendum.
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Efficacy data for *Ramularia* leaf spot (RAMUCC) in barley are presented from 8 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2- for winter barley and in Table 3.2-49 for spring barley. Trials in winter barley were carried out in 2019 and 2020 in Germany (4 trials). Trials in spring barley were carried out in 2018, 2022 and 2023 in Poland (1 trial) and Czech Republic (3 trials).

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

In winter barley treatments were applied at a single timing made when crop growth stages ranged from 37 to 51 (BBCH), in spring barley when crop growth stages ranged from 32 to 51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha. In 2022-2023 trials the standard reference product used for comparison was HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 l/ha.

Table 3.2-48: Efficacy against RAMUCC on winter barley taken from 4 trials with single application in Germany

Pest: <i>Ramularia collo-cygni</i> Application volume: 300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
HORVW	DEDSZF1262019	14-May-19	-	45 - 59	21-Jun-19	83 - 85	38 (1)	LEAF1		27.9	a	15.5	ac	45.0	3.2	bc	88.0	1.1	c	96.0
HORVW	DEDSZF3502019	06-May-19	-	45 - 49	17-Jun-19	75 - 77	42 (1)	LEAF1		13.2	a	2.8	cd	79.0	3.2	c	75.0	0.9	e	93.0
HORVW	DEDSZF5222019	30-Apr-19	-	37 - 49	11-Jun-19	75 - 75	42 (1)	LEAF1		49.1	a	29.0	bd	41.0	22.8	d	54.0	9.6	e	81.0
HORVW	DEDS0F4082020	28-Apr-20	-	47 - 51	27-May-20	71 - 75	29 (1)	LEAF1		37.4	ab	13.6	d	63.6	8.1	e	78.4	5.3	e	85.7
Direct comparison of A12916B to A14111B applied at 1.25 and 2.5 L/ha across 4 trials									Mean	31.9		57.2			73.9			88.9		
									Min-max	13.2-49.1		41-79			54-88			81-96		

Table 3.2-49: Efficacy against RAMUCC on spring barley taken from 4 trials in Poland and Czech republic

Pest: <i>Ramularia collo-cygni</i> Application volume: 200-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.		
HORVS	PLULZF1022018	30-May-18	-	49 - 51	03-Jul-18	85 - 87	34 (1)	LEAF1		13.1	a	3.9	cd	71.0	3.2	ef	76.0
HORVS	CZDITF1032022	19-May-22	-	34 – 37	01-Jul-22	77 - 83	43 (1)	LEAF 3		5.2	a	0.1	bc	98.2	0.2	bc	96.4 ^a
HORVS	CZDITF1042023	26-May-23	-	33 - 37	03-Jul-23	77 - 83	38 (1)	LEAF 2		8.2	a	1.1	bc	87	0.9	bc	89.3 ^a
HORVS	CZKUTF1052023	25-May-23		32 - 33	26-Jun-23	75 - 75	32 (1)	LEAF 3		67.3	a	39	b	42	21.2	d	68.5 ^a
Mean % disease control across 4 trials									Mean	23.5		74.6			-		
									Min-max	5.2-67.3		42-98.2			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 1 trial									Mean	13.1		71.0			76.0		
									Min-max	-		-			-		
Direct comparison of A12916B to HUTTON FORTE 280 EC applied at 1.5 L/ha across 3 trials									Mean	26.9		75.7			84.7		
									Min-max	5.2-67.3		42-98.2			68.5-96.4		

^a HUTTON FORTE 280 EC applied at 1.5 l/ha

On **winter barley**, by summarised assessments (29-42 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (13.2-49.1%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 57.2% (range 41-79%) across 4 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was lower than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at the maximum label rate of 2.5 L product/ha.

On **spring barley**, by summarised assessments (32-43 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to high (5.2-67.3%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 74.6% (range 42-98.2%) across 4 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was slightly lower than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across 1 trial and lower than that of HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha across 3 trials.

Overall conclusion

Data generated across trials carried out in Poland, Germany and Czech Republic clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of RAMUCC both on winter and spring barley.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was lower than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at 2.5 L product/ha in winter barley. In spring barley, A12916B applied at the proposed label rate of 1.5 L product/ha was slightly lower than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and lower than that of HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha.

It is acknowledged that the data set for justification of A12916B performance against *Ramularia* leaf spot (RAMUCC) on winter and spring barley crops does not fully meet data requirements, however, it is believed that additional few trials will not significantly change the efficacy levels already demonstrated in this National Addendum. Moreover, across both types of barley 8 supportive trials are available. Based on presented data, it is therefore considered that claims for control of *Ramularia* leaf spot (RAMUCC) on winter and spring barley by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported in Poland.

Conclusion to *Ramularia collo-cygni* on barley

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Infection by *Ramularia collo-cygni* was verified at acceptable levels in a total of 8 efficacy trials and assessed for disease severity for winter and spring barley. Trials in winter barley were carried out in 2019 and 2020 in Germany (4 trials). Trials in spring barley were carried out in 2018, 2022 and 2023 in Poland

(1 trial) and Czech Republic (3 trials). In winter barley treatments were applied at a single timing made when crop growth stages ranged from 37 to 51 (BBCH), in spring barley when crop growth stages ranged from 32 to 51 (BBCH).

On winter barley summarised assessments showed very variable results with a mean severity reduction of 57.2% (range 41-79%, untreated mean 31.9% range 13.2-49.1%)

On spring barley, summarised assessments showed very variable results with a mean severity reduction of 74.6% (range 42.0-98.2%), untreated mean 23.5%, range 5.2-67.3%).

According to the latest "*Metodyka Integrowanej Produkcji jęczmienia ozimego i jarego*" (2024), *Ramularia collo-cygni* is not listed as one of the most important fungal foliar diseases. The data provided may be accepted, and a claim of 'moderate control' of *Ramularia collo-cygni* in barley is considered appropriate.

3.2.3.4.5 Powdery mildew (*Blumeria graminis*: ERYSGR)

Syngenta comment	New data from 2020-2023 are provided for the purpose of this National Addendum.
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Efficacy data for Powdery mildew (ERYSGR) in barley are presented from 14 efficacy trials and assessed for disease severity (% of infected area, per leaf level) in Table 3.2- for winter barley and in Table 3.2-51 for spring barley. Trials in winter barley were carried out in 2018, 2019 and 2020 in Poland (3 trials), Lithuania (2 trials) and Germany (1 trial). Trials in spring barley were carried out in 2018, 2022 and 2023 in Poland (1 trial), Lithuania (2 trials) Czech Republic (3 trials) and Slovakia (2 trials). In a total, 6 trials were carried out on winter barley and 8 were carried out on spring barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

In winter barley treatments were applied at a single timing made when crop growth stages ranged from 32 to 59 (BBCH), in spring barley when crop growth stages ranged from 32 to 55 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha. In 2022-2023 trials the standard reference product used for comparison was HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 l/ha.

Table 3.2-50: Efficacy against ERYSGR on winter barley taken from 6 trials in Poland, Lithuania and Germany

Pest: <i>Blumeria graminis</i> Application volume: 300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
HORVW	LTAKZF7242019	22-May-19	1 - 10 %	49 - 59	25-Jun-19	77 - 77	34 (1)	LEAF2		5.5	a	2.4	b	57.0	2.6	b	53.0	2.5	b	55.0
HORVW	LTAKZF7252019	23-May-19	5 - 25 %	51 - 59	21-Jun-19	77 - 77	29 (1)	LEAF1		16.5	a	11.0	a	34.0	12.2	a	26.0	10.0	a	39.0
HORVW	PLBCZF1302018	27-Apr-18	0-30%	41 - 45	08-Jun-18	75 - 75	42 (1)	LEAF1		28.8	a	6.7	c	77.0	13.1	b	55.0			
HORVW	PLSOZF1152018	27-Apr-18	5 - 20 %	32 - 32	02-Jun-18	77 - 83	36 (1)	LEAF1		36.2	ab	19.4	ab	47.0	38.8	ab	0.0			
HORVW	PLSTZF1072018	09-May-18	-	49 - 51	08-Jun-18	83 - 87	30 (1)	LEAF2		5.4	a	1.9	b	65.0	1.0	cd	81.0			
HORVW	DEDS0F9272020	05-May-20	-	41 - 51	26-May-20	71-75	21 (1)	LEAF2		24.4	a	7.8	c	68.1	6.4	c	73.8	7.8	c	68.1
Mean % disease control across 6 trials									Mean	19.5		58.0			-			-		
									Min-max	5.4-36.2		34-77			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 6 trials									Mean	19.5		58.0			48.1			-		
									Min-max	5.4-36.2		34-77			0-81			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials									Mean	15.5		53.0			-			54.0		
									Min-max	5.5-24.4		34-68.1			-			39-68.1		

Table 3.2-51: Efficacy against ERYSGR on spring barley taken from 8 trials in Poland, Lithuania, Czech Republic and Slovakia

Pest: <i>Blumeria graminis</i> Application volume: 200-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.			
HORVS	LTAKZF1142018	13-Jun-18	1 - 10 %	45 - 49	18-Jul-18	83 - 83	35 (1)	LEAF1		6.6	a	2.4	b	64.0	2.9	b	56.0			
HORVS	LTAKZF1152018	14-Jun-18	1 - 10 %	51 - 55	12-Jul-18	77 - 83	28 (1)	LEAF1		5.9	a	1.1	de	82.0	1.8	ce	70.0			
HORVS	PLBCZF1312018	29-May-18	2 - 5 %	39 - 41	25-Jun-18	75 - 83	27 (1)	LEAF2		14.7	b	0.0	d	100.0	0.0	d	100.0			
HORVS	LVLVZF1082018*	27-Jun-18	-	39 - 43	25-Jul-18	75 - 75	28 (1)	LEAF2		8.4	a	15.6	a	0.0	13.8	a	0.0			
HORVS	SKBLTF1022022	11-May-22	-	30 - 32	15-Jun-22	75 - 83	35 (1)	LEAF 4		7.8	a	1.2	b	84.8				0	d	100 ^a
HORVS	SKBLTF1052022	18-May-22	-	37 - 43	27-Jun-22	83 - 87	40 (1)	LEAF 3		9.1	a	0.5	b	94.3				0.9	b	90.6 ^a
HORVS	CZDITF1042023	26-May-23	-	33 - 37	03-Jul-23	77 - 83	38 (1)	LEAF 2		5.8	a	0.4	b	93.5				0.1	b	98.9 ^a
HORVS	CZKUTF1052023	25-May-23	-	32 - 33	15-Jun-23	69 - 71	21 (1)	LEAF 4		15.6	a	2.2	de	85.7				3.5	bc d	77.5 ^a
HORVS	CZPRTF1112023	30-May-23	-	37 - 39	19-Jun-23	71 - 73	20 (1)	LEAF 4		6.9	a	2.3	b	66.5				1	b	85.4 ^a
Mean % disease control across 8 trials									Mean	9.1		83.9			-			-		
									Min-max	5.8-15.6		64-100			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 3 trials									Mean	9.1		82.0			75.3			-		
									Min-max	5.9-14.7		64-100			56-100			-		
Direct comparison of A12916B to HUTTON FORTE 280 EC applied at 1.5 L/ha across 5 trials									Mean	9.0		85.0			-			90.5		
									Min-max	5.8-15.6		66.5-94.3			-			77.5-100		

* data from this trial are excluded from the overall mean as efficacy is not representative of that of the treatments, with the standard reference product also not giving significant levels of control of the disease compared to the untreated;

^a HUTTON FORTE 280 EC applied at 1.5 l/ha

On **winter barley**, by summarised assessments (21-42 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (5.4-36.2%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 58.0% (range 34.0-77.0%) across 6 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and comparable to that of A14111B applied at the maximum label rate of 2.5 L product/ha, where included in 3 of the trials.

On **spring barley**, by summarised assessments (14-42 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to moderate (5.8-15.6%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave overall mean levels of control of 83.9% (range 64.0-100.0%) across 8 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across 3 trials and only slightly lower than that of HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha across 5 trials.

Overall conclusion

Data generated across trials carried out in Poland, Lithuania, Germany, Czech Republic and Slovakia clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of ERYSGR both on winter and spring barley.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and comparable to that of A14111B applied the maximum label rate of 2.5 L product/ha in winter barley. In spring barley, A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and slightly lower than that of HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 L/ha.

Based on presented data, it is therefore considered that claims for control of Powdery mildew (ERYSGR) on winter and spring barley by A12916B applied at the proposed label rate of 1.5 L product/ha are fully supported in Poland.

Conclusion to *Blumeria graminis* on barley

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Infection by *Blumeria graminis* was verified at acceptable levels in a total of 6 trials were carried out on winter barley and 8 were carried out on spring barley. In winter barley treatments were applied at a single timing made when crop growth stages ranged from 32 to 59 (BBCH), in spring barley when crop growth stages ranged from 32 to 55 (BBCH).

On winter barley summarised assessments showed very variable results with a mean severity reduction of 58.0% (range 34.0-77.0%, untreated mean 19.5% range 5.4-36.2%). The observed levels of control were generally similar to the efficacy provided by reference products.

These data support the claim of 'moderate control' of powdery mildew (ERYSGR) on winter barley.

On spring barley summarised assessments showed good results with a mean severity reduction of 83.9% (range 64.0-100.0%, untreated mean 9.1% range 5.8-15.6%). The observed levels of control were generally similar to the efficacy provided by reference products. It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against powdery mildew (ERYSGR) on barley.

3.2.3.4.6 Yield (and relevant quality indicators), from efficacy trials (in the presence of challenging pest populations) - barley

Plant quality

EPPO climatic zone – Maritime

Green leaf area data from 12 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in barley are presented in Table 3.2-. These trials were carried out in 2018, 2019, 2020 and 2021 in Germany. Of these trials, 11 were carried out on winter barley and 1 was carried out on spring barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on barley.

Treatments were applied at a single timing when crop growth stages ranged from 37 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Table 3.2-52: Plant quality data (% green leaf area) on winter and spring barley taken from 12 trials with single application that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean		Mean	
HORVW	DEDSZF1262019	PYRNTE, RAMUCC	45 - 59	38 (1)		23.8	ab	28.8	ab	45.0	a	50.0	a
HORVW	DEDSZF1272019	PUCCHD	37 - 45	52 (1)		25.0	de	57.5	a	60.0	a	62.5	a
HORVW	DEDSZF1682018	PYRNTE	37 - 43	41 (1)		33.8	f	47.5	bc	45.0	cd		
HORVW	DEDSZF1982019	PUCCHD, PYRNTE	43 - 49	48 (1)		5.0	b	7.5	b	5.0	b	10.0	a
HORVW	DEDSZF2832018	RHYNSE	39 - 49	36 (1)		2.5	d	10.0	bd	19.5	bc		
HORVW	DEDSZF2972018	PUCCHD, RHYNSE	49 - 49	46 (1)		0.5	b	1.2	b	3.0	ab		
HORVW	DEDSZF3502019	RAMUCC	45 - 49	50 (1)		0.0	c	1.0	c	3.5	bc	7.5	ab
HORVW	DEDSZF5222019	RAMUCC	37 - 49	54 (1)		10.0	c	13.2	ac	16.0	a	14.8	ab
HORVW	DEDS0F2892020	Various	39 - 49	48 (1)		0.1	b	2.3	ab	5	ab	11	ab
HORVW	DEDS0F3742020	Various	35 - 39	48 (1)		34.9	d	79.2	bc	73.5	c	90.3	a
HORVW	DEDS0F9272020	Various	41 - 51	42 (1)		11.2	c	19.9	b	22.5	b	19.9	b
HORVS	DESYZF6352021	Various	47 - 51	17 (1)		15		15				15*	
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 11 trials – winter barley						Mean	13.3	24.4		27.1		-	
						Min-max	0-34.9	1-79.2		3-73.5		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 8 trials - winter barley						Mean	13.8	26.2		-		33.3	
						Min-max	0-34.9	1-79.2		-		7.5-90.3	
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 1 trial - spring barley						Mean	15	15		-		15	
						Min-max	-	-		-		-	

*FANDANGO 200 EC was applied at 1.25 l/ha

On **winter barley**, by the summarised assessments carried out following single application (36-54 DA-A1) on the 11 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control.

The overall increase in green leaf area given by A12916B at the proposed label rate of 1.5 L product/ha was slightly lower than that given by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and lower than that given by A14111B applied at the maximum label rate of 2.5 L product/ha, where included in 8 of the trials.

On **spring barley**, by the assessment carried out following single application (17 DA-A1) on 1 efficacy trial, A12916B applied at the proposed label rate of 1.5 L product/ha gave no difference between treatments and untreated control.

Increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Green leaf area data from 20 efficacy trials in the North-east climatic zone that generated valid data on target diseases in barley are presented in Table 3.2-. These trials were carried out in 2018 and 2019 in Lithuania (7 trials), Latvia (4 trials) and Poland (9 trials). Of these trials, 10 were carried out on winter barley and 10 were carried out on spring barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on barley.

On these trials where determined, treatments were applied at a single timing made when crop growth stages ranged from 32 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-53: Plant quality data (% green leaf area) on spring and winter barley taken from 20 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750	A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500	A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	Mean	Mean
HORVS	LVALZF1092018	PYRNTE	51 - 51	25 (1)		30.0 a	18.8 a	37.5 a	
HORVS	LTAKZF1142018	ERYSGR	45 - 49	35 (1)		30.0 b	38.8 ab	34.1 ab	
HORVS	LTAKZF1152018	ERYSGR	45 - 49	28 (1)		34.1 c	47.8 ac	48.8 ab	
HORVS	LTAKZF1132018	COCHSA*, PUCCHD, PYRNTE	51 - 55	28 (1)		8.4 d	14.4 ad	20.9 a	
HORVS	LTAKZF7222019	PYRNTE	51 - 59	33 (1)		13.1 a	14.4 a	20.3 a	20.3 a
HORVS	LTAKZF7232019	PYRNTE	49 - 51	29 (1)		9.9 a	8.9 a	10.0 a	9.7 a
HORVS	LVALZF1072018	PUCCHD, PYRNTE	49 - 51	43 (1)		11.2 a	22.5 a	16.2 a	
HORVS	LVLVZF1082018	ERYSGR, PUCCHD, PYRNTE	39 - 39	28 (1)		53.8 cd	76.2 ad	72.5 ad	
HORVS	LVRIZF7212019	LEPTNO*, PUCCHD, PYRNTE	39 - 43	19 (1)		40.0 ab	55.0 ab	62.5 a	57.5 ab
HORVS	PLBCZF1312018	ERYSGR, PUCCHD	51 - 59	27 (1)		58.8 f	90.0 ab	87.5 b	
HORVW	PLBCZF1302018	ERYSGR, PYRNTE	39 - 41	42 (1)		50.0 f	77.5 bd	72.5 d	
HORVW	PLSOZF1142018	PYRNTE, RHYNSE	41 - 45	25 (1)		68.8 c	83.8 ac	76.2 bc	
HORVW	PLSOZF1152018	ERYSGR, PYRNTE	n/d	28 (1)		45.0 d	55.0 bd	46.2 d	
HORVW	PLSOZF7292019	PYRNTE, RHYNSE	32 - 32	47 (1)		18.8 c	43.8 ab	50.6 ab	51.2 ab
HORVW	PLSTZF1072018	ERYSGR, PYRNTE	33 - 33	30 (1)		16.2 e	35.0 d	40.0 bc	
HORVW	PLSYZF7302019	PYRNTE	49 - 51	41 (1)		0.0 c	11.2 ab	0.0 c	13.8 a
HORVW	PLSYZF7322019	PUCCHD, PYRNTE	37 - 39	35 (1)		23.8 c	40.0 a	27.5 bc	38.8 a
HORVW	PLSYZF7332019	PUCCHD	47 - 51	42 (1)		0.0 e	12.5 bd	10.0 d	16.2 a
HORVW	LTAKZF7242019	ERYSGR	37 - 41	34 (1)		8.9 a	10.6 a	10.6 a	10.3 a
HORVW	LTAKZF7252019	ERYSGR	49 - 59	29 (1)		29.1 a	27.4 a	24.8 a	38.0 a
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 10 trials – spring barley					Mean	28.9	38.7	41.0	-
					Min-max	8.4-58.8	8.9-90	10-87.5	-
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – spring barley					Mean	21.0	26.1	-	29.2
					Min-max	9.9-40	8.9-55	-	9.7-57.5
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 10 trials – winter barley					Mean	26.1	39.7	35.8	-
					Min-max	0-68.8	10.6-83.8	0-76.2	-
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials – winter barley					Mean	13.4	24.3	-	28.1
					Min-max	0-29.1	10.6-43.8	-	10.3-51.2

* non-target disease also was present in the trial

On **spring barley**, at summarised assessments (19-43 DA-A1) on the 10 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control.

The overall increase in green leaf area produced by A12916B at the label rate of 1.5 L product/ha was comparable to those given by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and at the maximum label rate of 2.5 L product/ha, where included in 3 of the trials.

On **winter barley**, at summarised assessments (25-47 DA-A1) on the 10 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control.

The overall increase in green leaf area produced by A12916B at the label rate of 1.5 L product/ha was comparable to those given by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across all trials and at the maximum label rate of 2.5 L product/ha, where included in 6 of the trials.

Increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Plant quality on barley efficacy trials: Overall conclusion from all EPPO climatic zones

A total of 32 of the trials carried out in 2018, 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases in barley also generated data on green leaf area. Of these trials, 11 were carried out on winter barley and 21 were carried out on spring barley.

Of these 32 trials, 12 were carried out in the Maritime climatic zone (Germany) and 20 were carried out in the North-east climatic zone (7 in Latvia, 4 in Lithuania, 9 in Poland).

Treatments were applied at single timings when crop growth stages ranged from 32 to 59 (BBCH) across trials.

An overall summary of effects on green leaf area of A12916B, compared to those of the standard reference product, across these 32 trials is given in Table 3.2-.

Table 3.2-54: Effects on plant quality of A12916B across efficacy trials on barley

EPPO climatic zone	Crop	No. of trials		Mean % green leaf area at final assessment timings								
				Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.25 L/HA*
					1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.25 LPR/HA	
Maritime	Winter barley	11 of 11	Mean	13.3	24.4	4 trials >	27.1	11 trials =	-	-	-	-
			Min-max	0-34.9	1-79.2	7 trials =	3-73.5		-		-	
		8 of 11	Mean	13.8	26.2	-	-	-	33.3	3 trials < 5 trials =	-	-
			Min-max	0-34.9	1-79.2		-		7.5-90.3		-	
	Spring barley	1 of 1	Mean	15	15	1 trial n.d.	-	-	-	1 trial n.d.	15	-
			Min-max	-	-		-		-		-	
North-east	Spring barley	10 of 10	Mean	28.9	38.7	1 trial >	41.0	10 trials =	-	-	-	-
			Min-max	8.4-58.8	8.9-90	9 trials =	10-87.5		-		-	
		3 of 10	Mean	21.0	26.1	-	-	-	29.2	3 trials =	-	-
			Min-max	9.9-40	8.9-55		-		9.7-57.5		-	
	Winter barley	10 of 10	Mean	26.1	39.7	6 trials >	35.8	2 trials > 1 trial < 4 trials =	-	-	-	-
			Min-max	0-68.8	10.6-83.8	4 trials =	0-76.2		-		-	
		6 of 10	Mean	13.4	24.3	-	-	-	28.1	1 trial < 5 trials =	-	-
			Min-max	0-29.1	10.6-43.8		-		10.3-51.2		-	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level; n.d. – not defined.

Data generated on efficacy trials carried out across the Maritime and North-east EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increases green leaf area as a direct function of efficacy against target diseases on barley and adverse effects of the disease in the untreated control.

Increases in green leaf area produced by A12916B were in most cases not statistically significantly different to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or at lower rates.

Increases in green leaf area produced by A12916B in these trials can be directly attributed to control of the target diseases and provide further evidence of the efficacy of A12916B against these diseases on barley.

Crop yield

EPPO climatic zone – Maritime

Crop yield data from 16 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in barley are presented in Table 3.2-. These trials were carried out in 2018, 2019, 2020 and 2021 in Germany. Of these trials, 15 were carried out on winter barley and 1 was carried out on spring barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in barley.

Treatments were applied at a single timing when crop growth stages ranged from 35 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Table 3.2-55: Crop yield data on winter and spring barley taken from 16 trials with single application that generated valid efficacy data on target diseases

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
HORVW	DEDSZF1262019	PYRNTE, RAMUCC	45 - 59	64 (1)		93.4	a	94.9	a	102.0	95.9	a	103.0	98.0	a	105.0
HORVW	DEDSZF1272019	PUCCHD	37 - 45	82 (1)		53.7	d	68.2	ab	127.0	67.1	ab	125.0	70.1	ab	130.0
HORVW	DEDSZF1682018	PYRNTE	37 - 43	59 (1)		77.2	c	88.7	ab	115.0	86.5	b	112.0			
HORVW	DEDSZF1722018	PYRNTE, RHYNSE	39 - 49	50 (1)		75.9	a	77.2	a	102.0	80.3	a	106.0			
HORVW	DEDSZF1982019	PUCCHD, PYRNTE	43 - 49	65 (1)		92.8	b	98.8	ab	106.0	98.8	ab	106.0	99.4	a	107.0
HORVW	DEDSZF2832018	RHYNSE	39 - 49	64 (1)		69.1	bc	73.1	ab	106.0	74.6	ab	108.0			
HORVW	DEDSZF2972018	PUCCHD, RHYNSE	49 - 49	61 (1)		59.0	ab	61.6	ab	104.0	61.7	ab	105.0			
HORVW	DEDSZF3502019	RAMUCC	45 - 49	59 (1)		90.4	ef	93.0	be	103.0	94.3	bd	104.0	97.8	a	108.0
HORVW	DEDSZF5222019	RAMUCC	37 - 49	155 (1)		84.8	e	90.4	bd	107.0	93.2	ab	110.0	96.5	a	114.0
HORVW	DEDS0F2892020	Various	39 - 49	68 (1)		72.9	b	75.5	b	103.7	73	b	100.2	84.8	ab	116.4
HORVW	DEDS0F3742020	Various	35 - 39	70 (1)		93.6	b	108.9	a	116.4	109.1	a	116.6	105.9	a	113.2
HORVW	DEDS0F4082020	Various	47 - 51	71 (1)		91.3	d	99.8	abc	109.3	100.7	ab	110.3	103.8	a	113.6
HORVW	DEDS0F9272020	Various	41 - 51	73 (1)		74.4	a	79.8	a	107.3	77.8	a	104.5	76.7	a	103.1
HORVW	DEBCZF8512021	Various	39 - 39	64 (1)		52.1	c	60.5	ab	116.2				64.5	a	123.7^a
HORVW	DEBCZF8532021	Various	39 - 45	78 (1)		50.5	b	64.4	a	127.7				61.6	a	122[*]
HORVS	DESYZF6352021	Various	47 - 51	36 (1)		58	a	59.9	a	103.2				60	a	103.4^a
Mean yield following A12916B applied at 1.5 L/ha across 15 trials – winter barley					Mean	75.4		110.2			-			-		
					Min-max	50.5-93.6		102-127.7			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 13 trials – winter barley					Mean	79.1		108.4			108.5			-		
					Min-max	53.7-93.6		102-127			100.2-125			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 9 trials – winter barley					Mean	83.0		109.1			-			112.3		
					Min-max	53.7-93.6		102-127			-			103.1-130		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 2 trials – winter barley					Mean	51.3		122.0			-			122.9		
					Min-max	50.5-52.1		116.2-127.7			-			122-123.7		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 1 trial – spring barley					Mean	58		103.2			-			103.4		
					Min-max	-		-			-			-		

^a FANDANGO 200 EC was applied at 1.25 l/ha

In **winter barley**, on the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, and on 7 of the 15 trials the increases were statistically significant.

Effects on crop yield produced by a single application of A12916B at the label rate of 1.5 L product/ha were comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha where included in 13 of the trials, slightly lower than those produced by the maximum label rate of 2.5 L product/ha, where included in 9 of the trials, with differences being statistically significant in 2 of these 9 trials and comparable to those produced by the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha, where included in 2 of the trials,

In **spring barley**, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield compared to the untreated control, but difference was not statistically significant.

Effect on crop yield produced by a single application of A12916B at the label rate of 1.5 L product/ha was comparable to that produced by the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Crop yield data from 24 efficacy trials in the North-east climatic zone that generated valid data on target diseases in barley are presented in Table 3.2-. These trials were carried out in 2018 and 2019 in Lithuania (7 trials), Latvia (4 trials) and Poland (13 trials). Of these trials, 13 were carried out on winter barley and 11 were carried out on spring barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in barley.

On these trials where determined, treatments were applied at a single timing made when crop growth stages ranged from 32 to 51-59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-56: Crop yield data on barley taken from 24 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
HORVS	LVALZF1092018	PYRNTE	51 - 51	43 (1)		39.1	a	46.8	a	120.0	43.9	a	112.0			
HORVS	LTAKZF1142018	ERYSGR	45 - 49	56 (1)		55.6	cd	59.9	ac	108.0	56.8	bd	102.0			
HORVS	LTAKZF1152018	ERYSGR	51 - 55	49 (1)		58.8	b	64.9	ab	110.0	62.1	ab	106.0			
HORVS	LTAKZF1132018	COCHSA*, PUCCHD, PYRNTE	51 - 59	44 (1)		55.3	a	59.7	a	108.0	57.2	a	103.0			
HORVS	LTAKZF7222019	PYRNTE	49 - 51	49 (1)		45.9	b	47.2	ab	103.0	48.6	ab	106.0	51.0	a	111.0
HORVS	LTAKZF7232019	PYRNTE	49 - 51	42 (1)		52.5	a	53.4	a	102.0	54.5	a	104.0	52.9	a	101.0
HORVS	LVALZF1072018	PUCCHD, PYRNTE	39 - 39	65 (1)		32.2	a	31.9	a	99.0	33.2	a	103.0			
HORVS	LVLVZF1082018	ERYSGR, PUCCHD, PYRNTE	39 - 43	64 (1)		16.8	a	21.7	a	130.0	19.4	a	115.0			
HORVS	LVRIZF7212019	LEPTNO*, PUCCHD, PYRNTE	51 - 59	47 (1)		47.6	ef	59.9	ab	126.0	57.6	ac	121.0	58.3	ac	122.0
HORVS	PLBCZF1312018	ERYSGR, PUCCHD	39 - 41	59 (1)		34.2	ab	35.0	ab	102.0	35.7	ab	104.0			
HORVS	PLULZF1022018	PUCCHD, RAMUCC	49 - 51	61 (1)		43.9	de	45.9	de	105.0	45.4	de	104.0			
HORVW	PLBCZF1302018	ERYSGR, PYRNTE	41 - 45	69 (1)		64.9	b	69.5	ab	107.0	73.3	a	113.0			
HORVW	PLSOZF1142018	PYRNTE, RHYNSE	n/d	65 (1)		43.6	a	41.9	a	96.0	50.9	a	117.0			
HORVW	PLSOZF1152018	ERYSGR, PYRNTE	32 - 32	69 (1)		61.4	a	64.4	a	105.0	63.1	a	103.0			
HORVW	PLSOZF7292019	PYRNTE, RHYNSE	33 - 33	71 (1)		65.9	c	72.6	ac	110.0	70.0	ac	106.0	73.7	ac	112.0
HORVW	PLSTZF1072018	ERYSGR, PYRNTE	49 - 51	57 (1)		41.4	a	47.7	a	115.0	46.1	a	111.0			
HORVW	PLSYZF7302019	PYRNTE	37 - 39	56 (1)		74.5	c	84.0	ab	113.0	82.5	ab	111.0	84.6	a	114.0
HORVW	PLSYZF7312019	PYRNTE	41 - 43	74 (1)		53.3	b	61.4	a	115.0	60.5	a	114.0	61.6	a	116.0
HORVW	PLSYZF7322019	PUCCHD, PYRNTE	47 - 51	75 (1)		60.8	ab	67.9	ab	112.0	66.3	ab	109.0	69.6	a	114.0
HORVW	PLSYZF7332019	PUCCHD	37 - 41	54 (1)		54.0	d	62.2	a	115.0	59.7	ac	111.0	61.5	ab	114.0
HORVW	PLSYZF7342019	PUCCHD, PYRNTE	39 - 43	81 (1)		50.5	b	60.2	a	119.0	59.2	a	117.0	60.2	a	119.0
HORVW	PLUPZF1112018	PYRNTE, RHYNSE	49 - 52	42 (1)		72.7	a	79.7	a	110.0	77.2	a	106.0			
HORVW	LTAKZF7242019	ERYSGR	49 - 59	51 (1)		48.9	a	52.9	a	108.0	51.8	a	106.0	50.0	a	102.0
HORVW	LTAKZF7252019	ERYSGR	51 - 59	50 (1)		48.4	a	48.7	a	101.0	47.3	a	98.0	51.8	a	107.0
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 11 trials – spring barley					Mean	43.8		110.3			107.3			-		
					Min-max	16.8-58.8		99-130			102-121			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – spring barley					Mean	48.7		110.3			-			111.3		
					Min-max	45.9-52.5		102-126			-			101-122		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 13 trials – winter barley					Mean	56.9		109.7			109.4			-		
					Min-max	41.4-74.5		96-119			98-117			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 8 trials – winter barley					Mean	57.0		111.6			-			112.3		
					Min-max	48.4-74.5		101-119			-			102-119		

* non-target disease also was present in the trial

In **spring barley**, on the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, and on 1 of the 11 trials the increase was statistically significant.

Effects on crop yield produced by a single application of A12916B at the label rate of 1.5 L product/ha were slightly higher to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha where included in all 11 trials and comparable than those produced by the maximum label rate of 2.5 L product/ha, where included in 3 of the trials.

In **winter barley**, on the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, and on 4 of the 13 trials the increases were statistically significant.

Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were consistently comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L product/ha and/or at a lower rate of 1.25 L product/ha.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Crop yield on barley efficacy trials: Overall conclusion from all EPPO climatic zones

A total of 40 trials carried out in 2018, 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on barley also generated data on crop yield. Of these trials, 12 were carried out on winter barley and 28 were carried out on spring barley.

Of these 40 trials, 16 were carried out in the Maritime climatic zone (Germany) and 24 were carried out in the North-east climatic zone (7 in Latvia, 4 in Lithuania, 13 in Poland).

Treatments were applied at single timings when crop growth stages ranged from 32 to 59 (BBCH) across trials.

An overall summary of effects on crop yield of A12916B, compared to those of the standard reference product, across these 40 trials is given in Table 3.2-.

Table 3.2-57: Effects on crop yield of A12916B across efficacy trials on barley

EPPO climatic zone	Crop	No. of trials		Mean crop yield (as % of untreated)								
				Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.25 L/HA*
					1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.25 LPR/HA	
Maritime	Winter barley	15 of 15	Mean	75.4	110.2	7 trials > 8 trials =	-	-	-	-	-	-
			Min-max	50.5-93.6	102-127.7		-		-		-	
		13 of 15	Mean	79.1	108.4	-	108.5	13 trials =	-	-	-	-
			Min-max	53.7-93.6	102-127		100.2-125		-		-	
		9 of 15	Mean	83.0	109.1	-	-	-	112.3	2 trials < 7 trials =	-	-
			Min-max	53.7-93.6	102-127		-		103.1-130		-	
		2 of 15	Mean	51.3	122.0	-	-	-	-	-	122.9	2 trials =
			Min-max	50.5-52.1	116.2-127.7		-		-		122-123.7	
	Spring barley	1 of 1	Mean	58	103.2	1 trial =	-	-	-	-	103.4	1 trial =
			Min-max	-	-		-		-		-	
North-east	Spring barley	11 of 11	Mean	43.8	110.3	1 trial > 10 trials =	107.3	1 trial > 10 trials =	-	-	-	-
			Min-max	16.8-58.8	99-130		102-121		-		-	
		3 of 11	Mean	48.7	110.3	-	-	-	111.3	3 trials =	-	-
			Min-max	45.9-52.5	102-126		-		101-122		-	
	Winter barley	13 of 13	Mean	56.9	109.7	4 trials > 9 trials =	109.4	13 trials =	-	-	-	-
			Min-max	41.4-74.5	96-119		98-117		-		-	
		8 of 13	Mean	57.0	111.6	-	-	-	112.3	8 trials =	-	-
			Min-max	48.4-74.5	101-119		-		102-119		-	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across Maritime and North-East EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, on the majority of the trials as a direct function of efficacy against target diseases and on 12 of the trials the increases were statistically significant.

Increases in crop yield produced by A12916B were generally similar to or slightly higher than those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha, similar to or slightly lower to those produced by the maximum label rate of 2.5 L product/ha and similar to those produced by FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha

Where occurring, increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on barley.

Yield quality

EPPO climatic zone – Maritime

Grain quality parameter data from 12 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in barley are presented in Table 3.2- (TGW on 10 trials),

Table 3.2- (HLW on 12 trials), Table 3.2- (protein content on 9 trials). These trials were carried out in 2018, 2019, 2020 and 2021 in Germany. Of these trials, 11 were carried out on winter barley and 1 were carried out on spring barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in barley.

Treatments were applied at a single timing when crop growth stages ranged from 35 to 59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Table 3.2-58: TGW data on winter and spring barley taken from 10 trials with single application that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
HORVW	DEDSZF1262019	PYRNTE, RAMUCC	45 - 59	129 (1)		46.4		47.7		103.0	47.6		103.0	47.6		103.0
HORVW	DEDSZF1272019	PUCCHD	37 - 45	161 (1)		32.9		39.3		119.0	36.9		112.0	43.0		131.0
HORVW	DEDSZF1682018	PYRNTE	37 - 43	164 (1)		47.7		49.9		105.0	49.8		104.0			
HORVW	DEDSZF1722018	PYRNTE, RHYNSE	39 - 49	137 (1)		43.9		45.4		103.0	44.3		101.0			
HORVW	DEDSZF1982019	PUCCHD, PYRNTE	43 - 49	139 (1)		34.5		34.8		101.0	36.5		106.0	34.2		99.0
HORVW	DEDSZF2972018	PUCCHD, RHYNSE	49 - 49	70 (1)		44.0		44.1		100.0	43.0		98.0			
HORVW	DEDSZF3502019	RAMUCC	45 - 49	134 (1)		47.1		46.4		99.0	46.4		99.0	46.8		99.0
HORVW	DEDSZF5222019	RAMUCC	37 - 49	155 (1)		49.0	b	49.9	ab	102.0	51.4	ab	105.0	52.4	a	107.0
HORVW	DEDS0F3742020	Various	35 - 39	174 (1)		40.4		42.1		104.2	41.5		102.7	43.7		108.2
HORVS	DESYZF6352021	Various	47 -51	36 (1)		39.2	b	40.7	ab	103.9				40.7	ab	103.9^a
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 9 trials – winter barley					Mean	42.9		104.0			103.4			-		
					Min-max	32.9-49		99-119			98-112			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials – winter barley					Mean	41.7		104.7			-			107.9		
					Min-max	32.9-49		99-119			-			99-131		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 1 trial – spring barley					Mean	39.2		103.9			-			103.9		
					Min-max	-		-			-			-		

^a FANDANGO 200 EC was applied at 1.25 l/ha

Table 3.2-59: Grain HLW data on barley taken from 12 trials with single application that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
HORVW	DEDSZF1262019	PYRNTE, RAMUCC	45 - 59	129 (1)		69.1		69.0		100.0	69.0		100.0	73.2		106.0
HORVW	DEDSZF1272019	PUCCHD	37 - 45	82 (1)		49.8	bc	53.2	a	107.0	56.2	a	113.0	57.0	a	115.0
HORVW	DEDSZF1682018	PYRNTE	37 - 43	59 (1)		53.0	b	54.8	ab	103.0	54.9	ab	104.0			
HORVW	DEDSZF1722018	PYRNTE, RHYNSE	39 - 49	137 (1)		64.8		64.8		100.0	66.0		102.0			
HORVW	DEDSZF1982019	PUCCHD, PYRNTE	43 - 49	65 (1)		54.4	a	57.4	a	105.0	56.1	a	103.0	56.8	a	104.0
HORVW	DEDSZF2832018	RHYNSE	39 - 49	64 (1)		65.9	a	65.3	a	99.0	66.6	a	101.0			
HORVW	DEDSZF2972018	PUCCHD, RHYNSE	49 - 49	61 (1)		62.9	a	61.6	a	98.0	64.5	a	103.0			
HORVW	DEDSZF3502019	RAMUCC	45 - 49	59 (1)		62.0	a	62.3	a	100.0	62.8	a	101.0	63.0	a	102.0
HORVW	DEDSZF5222019	RAMUCC	37 - 49	155 (1)		66.8	b	67.2	ab	101.0	68.2	a	102.0	68.4	a	102.0
HORVW	DEDS0F3742020	Various	35 - 39	174 (1)		61.8		61.8		100	62.2		100.7	63.5		102.8
HORVW	DEDS0F9272020	Various	41 - 51	73 (1)		43	a	46.8	a	109	46.5	a	108.1	44.1	a	102.7
HORVS	DESYZF6352021	Various	47 -51	36 (1)		59.1	a	59.6	a	100.8				59.5	a	100.7 ^a
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 11 trials – winter barley					Mean	59.4		102.0			103.4			-		
					Min-max	43-69.1		98-109			100-113			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 7 trials – winter barley					Mean	58.1		103.1			-			104.9		
					Min-max	43-69.1		100-109			-			102-115		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 1 trial – spring barley					Mean	59.1		100.8			-			100.7		
					Min-max	-		-			-			-		

^a FANDANGO 200 EC was applied at 1.25 l/ha

Table 3.2-60: Grain protein content data on winter and spring barley taken from 9 trials with single application that generated valid efficacy on target diseases data in Germany

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
HORVW	DEDSZF1262019	PYRNTE, RAMUCC	45 - 59	129 (1)		11.9		11.6		97.0	11.9		100.0	12.0		101.0
HORVW	DEDSZF1272019	PUCCHD	37 - 45	161 (1)		13.3		13.3		100.0	13.5		102.0	12.7		95.0
HORVW	DEDSZF1682018	PYRNTE	37 - 43	164 (1)		12.4		12.0		97.0	11.9		96.0			
HORVW	DEDSZF1722018	PYRNTE, RHYNSE	39 - 49	137 (1)		14.5		14.1		97.0	14.4		99.0			
HORVW	DEDSZF1982019	PUCCHD, PYRNTE	43 - 49	139 (1)		11.7		12.5		107.0	12.3		105.0	12.1		103.0
HORVW	DEDSZF2972018	PUCCHD, RHYNSE	49 - 49	126 (1)		13.2		12.9		98.0	12.7		96.0			
HORVW	DEDSZF3502019	RAMUCC	45 - 49	134 (1)		14.1		14.7		104.0	14.6		104.0	14.3		101.0
HORVW	DEDSZF5222019	RAMUCC	37 - 49	155 (1)		12.5	a	12.8	a	102.0	12.5	a	100.0	12.5	a	100.0
HORVS	DESYZF6352021	Various	47 -51	36 (1)		12.6	a	12	a	95.6				12.5	a	99.6*
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 8 trials – winter barley					Mean	13.0		100.3			100.3			-		
					Min-max	11.7-14.5		97-107			96-105			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 5 trials – winter barley					Mean	12.7		102.0			-			100.0		
					Min-max	11.7-14.1		97-107			-			95-103		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 1 trial – spring barley					Mean	12.6		95.6			-			99.6		
					Min-max	-		-			-			-		

*FANDANGO 200 EC was applied at 1.25 l/ha

On the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha gave mainly slight increases in HLW, TGW and protein content of the grain, compared to the untreated control, where evaluations were carried out.

Any effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L product/ha and/or at lower rates of 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Grain quality parameter data from 24 efficacy trials in the North-east climatic zone that generated valid data on target diseases in barley are presented in Table 3.2- (TGW on all 24 trials), Table 3.2- (HLW on all 24 trials) and Table 3.2- (protein content on 20 trials). These trials were carried out in 2018 and 2019 in Lithuania (7 trials), Latvia (4 trials) and Poland (13 trials). Of these trials, 13 were carried out on winter barley and 11 were carried out on spring barley.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in barley.

On these trials where determined, treatments were applied at a single timing made when crop growth stages ranged from 32 to 51-59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-61: TGW data on spring and winter barley taken from 24 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		% untreated	Mean		% untreated	Mean		% untreated
HORVS	LVALZF1092018	PYRNTE	51 - 51	81 (1)		44.6		46.9		105.0	47.0		105.0			
HORVS	LTAKZF1142018	ERYSGR	45 - 49	89 (1)		51.4	c	52.3	b	102.0	53.7	a	105.0			
HORVS	LTAKZF1152018	ERYSGR	51 - 55	88 (1)		55.9	b	56.9	a	102.0	56.4	ab	101.0			
HORVS	LTAKZF1132018	COCHSA*, PUCCHD, PYRNTE	51 - 59	84 (1)		53.6	b	55.1	a	103.0	55.1	a	103.0			
HORVS	LTAKZF7222019	PYRNTE	49 - 51	82 (1)		59.5	b	60.3	ab	101.0	61.8	a	104.0	61.2	ab	103.0
HORVS	LTAKZF7232019	PYRNTE	49 - 51	75 (1)		48.2	d	49.0	cd	102.0	52.0	a	108.0	50.8	ab	106.0
HORVS	LVALZF1072018	PUCCHD, PYRNTE	39 - 39	96 (1)		48.9		46.0		94.0	48.4		99.0			
HORVS	LVLVZF1082018	ERYSGR, PUCCHD, PYRNTE	39 - 43	82 (1)		42.3		43.1		102.0	43.6		103.0			
HORVS	LVRIZF7212019	LEPTNO*, PUCCHD, PYRNTE	51 - 59	60 (1)		62.6		62.7		100.0	64.0		102.0	65.2		104.0
HORVS	PLBCZF1312018	ERYSGR, PUCCHD	39 - 41	83 (1)		46.3		50.8		110.0	48.2		104.0			
HORVS	PLULZF1022018	PUCCHD, RAMUCC	49 - 51	61 (1)		44.1	c	42.9	c	97.0	43.3	c	98.0			
HORVW	PLBCZF1302018	ERYSGR, PYRNTE	41 - 45	108 (1)		47.9		51.3		107.0	48.0		100.0			
HORVW	PLSOZF1142018	PYRNTE, RHYNSE	n/d	106 (1)		42.5		43.5		102.0	44.1		104.0			
HORVW	PLSOZF1152018	ERYSGR, PYRNTE	32 - 32	109 (1)		46.1		47.3		103.0	46.1		100.0			
HORVW	PLSOZF7292019	PYRNTE, RHYNSE	33 - 33	78 (1)		31.5		34.4		109.0	33.2		105.0	34.8		110.0
HORVW	PLSTZF1072018	ERYSGR, PYRNTE	49 - 51	77 (1)		27.5		29.7		108.0	28.4		103.0			
HORVW	PLSYZF7302019	PYRNTE	37 - 39	56 (1)		52.7		53.4		101.0	54.6		104.0	53.9		102.0
HORVW	PLSYZF7312019	PYRNTE	41 - 43	92 (1)		39.6	b	41.6	a	105.0	41.4	a	104.0	41.6	a	105.0
HORVW	PLSYZF7322019	PUCCHD, PYRNTE	47 - 51	75 (1)		33.2		34.1		103.0	33.7		101.0	34.0		102.0
HORVW	PLSYZF7332019	PUCCHD	37 - 41	54 (1)		48.3		49.6		103.0	49.2		102.0	49.8		103.0
HORVW	PLSYZF7342019	PUCCHD, PYRNTE	39 - 43	96 (1)		39.2	d	41.5	ab	106.0	41.4	ab	106.0	41.2	b	105.0
HORVW	PLUPZF1112018	PYRNTE, RHYNSE	49 - 52	51 (1)		40.7	a	42.9	a	105.0	41.7	a	102.0			
HORVW	LTAKZF7242019	ERYSGR	49 - 59	105 (1)		49.0	a	49.7	a	102.0	49.8	a	102.0	49.8	a	102.0
HORVW	LTAKZF7252019	ERYSGR	51 - 59	104 (1)		45.6	a	47.3	a	104.0	46.3	a	101.0	48.3	a	106.0
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 11 trials – spring barley					Mean	50.7		101.6		102.9			-			
					Min-max	42.3-62.6		94-110		98-108			-			
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – spring barley					Mean	56.8		101.0		-			104.3			
					Min-max	48.2-62.6		100-102		-			103-106			
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 13 trials – winter barley					Mean	41.8		104.5		102.6			-			
					Min-max	27.5-52.7		101-109		100-106			-			
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 8 trials – winter barley					Mean	42.4		104.1		-			104.4			
					Min-max	31.5-52.7		101-109		-			102-110			

* non-target disease also was present in the trial

Table 3.2-62: Grain HLW data on spring and winter barley taken from 24 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
HORVS	LVALZF1092018	PYRNTE	51 - 51	81 (1)		72.8	72.5	100.0	72.5	100.0		
HORVS	LTAKZF1142018	ERYSGR	45 - 49	89 (1)		67.9 a	68.3 a	101.0	67.6 a	100.0		
HORVS	LTAKZF1152018	ERYSGR	51 - 55	88 (1)		70.5 a	70.8 a	100.0	71.0 a	101.0		
HORVS	LTAKZF1132018	COCHSA*, PUCCHD, PYRNTE	51 - 59	84 (1)		70.9 a	70.7 a	100.0	70.9 a	100.0		
HORVS	LTAKZF7222019	PYRNTE	49 - 51	49 (1)		63.2 a	63.5 a	100.0	63.8 a	101.0	63.2 a	100.0
HORVS	LTAKZF7232019	PYRNTE	49 - 51	42 (1)		63.9 a	63.5 a	99.0	65.8 a	103.0	64.8 a	101.0
HORVS	LVALZF1072018	PUCCHD, PYRNTE	39 - 39	96 (1)		69.9	69.8	100.0	70.8	101.0		
HORVS	LVLVZF1082018	ERYSGR, PUCCHD, PYRNTE	39 - 43	82 (1)		66.1	66.9	101.0	65.9	100.0		
HORVS	LVRIZF7212019	LEPTNO*, PUCCHD, PYRNTE	51 - 59	60 (1)		63.0	63.2	100.0	63.1	100.0	63.3	101.0
HORVS	PLBCZF1312018	ERYSGR, PUCCHD	39 - 41	83 (1)		62.8	64.3	102.0	63.6	101.0		
HORVS	PLULZF1022018	PUCCHD, RAMUCC	49 - 51	61 (1)		64.0 ad	68.4 a	107.0	60.9 cd	95.0		
HORVW	PLBCZF1302018	ERYSGR, PYRNTE	41 - 45	108 (1)		64.8	65.9	102.0	65.6	101.0		
HORVW	PLSOZF1142018	PYRNTE, RHYNSE	n/d	100 (1)		60.4	59.9	99.0	61.0	101.0		
HORVW	PLSOZF1152018	ERYSGR, PYRNTE	32 - 32	103 (1)		62.2	62.7	101.0	62.1	100.0		
HORVW	PLSOZF7292019	PYRNTE, RHYNSE	33 - 33	77 (1)		63.2	64.6	102.0	65.0	103.0	64.6	102.0
HORVW	PLSTZF1072018	ERYSGR, PYRNTE	49 - 51	57 (1)		54.3 a	53.8 a	99.0	52.3 a	96.0		
HORVW	PLSYZF7302019	PYRNTE	37 - 39	56 (1)		60.5	59.9	99.0	59.8	99.0	59.7	99.0
HORVW	PLSYZF7312019	PYRNTE	41 - 43	92 (1)		52.6 c	55.9 ab	106.0	55.0 ab	104.0	55.1 ab	105.0
HORVW	PLSYZF7322019	PUCCHD, PYRNTE	47 - 51	75 (1)		69.3	71.2	103.0	70.1	101.0	70.4	102.0
HORVW	PLSYZF7332019	PUCCHD	37 - 41	54 (1)		55.5	59.3	107.0	59.8	108.0	57.6	104.0
HORVW	PLSYZF7342019	PUCCHD, PYRNTE	39 - 43	96 (1)		52.6 b	56.0 a	106.0	55.8 a	106.0	55.8 a	106.0
HORVW	PLUPZF1112018	PYRNTE, RHYNSE	49 - 52	51 (1)		62.0 a	63.7 a	103.0	62.6 a	101.0		
HORVW	LTAKZF7242019	ERYSGR	49 - 59	51 (1)		65.5 a	65.1 a	99.0	65.3 a	100.0	65.2 a	100.0
HORVW	LTAKZF7252019	ERYSGR	51 - 59	104 (1)		63.0 a	63.9 a	101.0	64.0 a	102.0	64.0 a	102.0
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 11 trials – spring barley					Mean	66.8	100.9	100.2	-			
					Min-max	62.8-72.8	99-107	95-103	-			
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – spring barley					Mean	63.4	99.7	-	100.7			
					Min-max	63-63.9	99-100	-	100-101			
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 13 trials – winter barley					Mean	100.7	102.1	101.7	-			
					Min-max	100-101	99-107	96-108	-			
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 8 trials – winter barley					Mean	60.3	102.9	-	102.5			
					Min-max	52.6-69.3	99-107	-	99-106			

* non-target disease also was present in the trial

Table 3.2-63: Grain protein content data on spring and winter barley taken from 20 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>	% untreated	<i>Mean</i>	% untreated	<i>Mean</i>	% untreated
HORVS	LVALZF1092018	PYRNTE	51 - 51	81 (1)		13.3		12.9		12.7			
HORVS	LTAKZF1142018	ERYSGR	45 - 49	89 (1)		13.6	c	14.0	ac	14.2	ab		
HORVS	LTAKZF1152018	ERYSGR	51 - 55	88 (1)		11.4	a	11.5	a	11.8	a		
HORVS	LTAKZF1132018	COCHSA*, PUCCHD, PYRNTE	51 - 59	84 (1)		12.0	a	12.1	a	12.1	a		
HORVS	LTAKZF7222019	PYRNTE	49 - 51	49 (1)		13.6	ab	13.8	ab	13.8	ab	13.9	a
HORVS	LTAKZF7232019	PYRNTE	49 - 51	42 (1)		14.0	ab	14.1	a	13.6	b	13.8	ab
HORVS	LVALZF1072018	PUCCHD, PYRNTE	39 - 39	96 (1)		16.4		16.9		16.7			
HORVS	LVLVZF1082018	ERYSGR, PUCCHD, PYRNTE	39 - 43	82 (1)		17.6		17.7		17.2			
HORVS	LVRIZF7212019	LEPTNO*, PUCCHD, PYRNTE	51 - 59	60 (1)		13.1		12.9		12.6		12.9	
HORVS	PLBCZF1312018	ERYSGR, PUCCHD	39 - 41	83 (1)		17.2		17.5		17.4			
HORVW	PLBCZF1302018	ERYSGR, PYRNTE	41 - 45	108 (1)		17.7		17.6		17.5			
HORVW	PLSOZF1142018	PYRNTE, RHYNSE	n/d	72 (1)		10.6		10.9		10.7			
HORVW	PLSOZF1152018	ERYSGR, PYRNTE	32 - 32	75 (1)		11.7		11.0		11.9			
HORVW	PLSOZF7292019	PYRNTE, RHYNSE	33 - 33	77 (1)		11.7		12.4		12.4		13.0	
HORVW	PLSTZF1072018	ERYSGR, PYRNTE	49 - 51	77 (1)		10.4		12.8		12.2			
HORVW	PLSYZF7302019	PYRNTE	37 - 39	132 (1)		13.9		13.6		13.8		13.8	
HORVW	PLSYZF7312019	PYRNTE	41 - 43	92 (1)		9.5	b	11.3	a	11.2	a	11.2	a
HORVW	PLSYZF7332019	PUCCHD	37 - 41	131 (1)		12.6		12.3		12.4		12.4	
HORVW	PLSYZF7342019	PUCCHD, PYRNTE	39 - 43	96 (1)		9.2	b	11.4	a	11.4	a	11.4	a
HORVW	PLSYZF7322019	PUCCHD, PYRNTE	47 - 51	105 (1)		11.7		12.0		11.9		12.1	
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 10 trials – spring barley					Mean	14.2		100.9		99.9		-	
					Min-max	11.4-17.6		97-103		95-104		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – spring barley					Mean	13.6		100.3		-		99.7	
					Min-max	13.1-14		99-101		-		98-102	
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 10 trials – winter barley					Mean	11.9		106.5		106.7		-	
					Min-max	9.2-17.7		94-123		98-124		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 6 trials – winter barley					Mean	11.4		107.7		-		108.8	
					Min-max	9.2-13.9		98-123		-		98-123	

* non-target disease also was present in the trial

On the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha gave mainly slight increases in HLW, TGW and protein content of the grain, compared to the untreated control, where evaluations were carried out.

Any effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L product/ha and/or at a lower rate of 1.25 L product/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Yield quality on barley efficacy trials: Overall conclusion from all EPPO climatic zones

A total of 36 trials carried out in 2018, 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on barley also generated data on comparing effects on grain quality (TGW, HLW and protein content). Of these trials, 24 were carried out on winter barley and 12 were carried out on spring barley.

Of these 36 trials, 12 were carried out in the Maritime climatic zone (Germany) and 24 were carried out in the North-east climatic zone (7 in Latvia, 4 in Lithuania, 13 in Poland).

Treatments were applied at single timings when crop growth stages ranged from 32 to 59 (BBCH) across trials.

An overall summary of effects on grain quality parameters of A12916B, compared to those of the standard reference product, across these 36 trials is given in Table 3.2-.

Table 3.2-64: Effects on grain quality of A12916B across efficacy trials on barley

	EPPO climatic zone	Crop	No. of trials		Mean grain quality data (as % of untreated)								
					Untreated	A12916B	A12916B compared to Untreated*	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*
						1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.5 LPR/HA	
TGW (g)	Maritime	Winter barley	9 of 9	Mean	42.9	104.0	1 trial = 8 trials n.d.	103.4	1 trial = 8 trials n.d.	-	-	-	-
				Min-max	32.9-49	99-119		98-112		-		-	
			6 of 9	Mean	41.7	104.7	-	-	-	107.9	1 trial = 5 trials n.d.	-	-
				Min-max	32.9-49	99-119		-		99-131		-	
		Spring barley	1 of 1	Mean	39.2	103.9	1 trial =	-	-	-	-	103.9	1 trial =
				Min-max	-	-		-		-		-	
	North-east	Spring barley	11 of 11	Mean	50.7	101.6	3 trials > 3 trials = 5 trials n.d.	102.9	1 trial < 5 trials = 5 trials n.d.	-	-	-	-
				Min-max	42.3-62.6	94-110		98-108		-		-	
			3 of 11	Mean	56.8	101.0	-	-	-	104.3	2 trials = 1 trial n.d.	-	-
				Min-max	48.2-62.6	100-102		-		103-106		-	
		Winter barley	13 of 13	Mean	41.8	104.5	2 trials > 3 trials = 8 trials n.d.	102.6	5 trials = 8 trials n.d.	-	-	-	-
				Min-max	27.5-52.7	101-109		100-106		-		-	
			8 of 13	Mean	42.4	104.1	-	-	-	104.4	4 trials = 4 trials n.d.	-	-
				Min-max	31.5-52.7	101-109		-		102-110		-	
HLW (kg/hL)	Maritime	Winter barley	11 of 11	Mean	59.4	102.0	1 trial > 7 trials = 3 trials n.d.	103.4	8 trials = 3 trials n.d.	-	-	-	-
				Min-max	43-69.1	98-109		100-113		-		-	
			7 of 11	Mean	58.1	103.1	-	-	-	104.9	5 trials = 2 trials n.d.	-	-
				Min-max	43-69.1	100-109		-		102-115		-	
		Spring barley	1 of 1	Mean	59.1	100.8	1 trial =	-	-	-	-	100.7	1 trial =
				Min-max	-	-		-		-		-	
	North-east	Spring barley	11 of 11	Mean	66.8	100.9	6 trials = 5 trials n.d.	100.2	1 trial > 5 trials = 3 trials n.d.	-	-	-	-
				Min-max	62.8-72.8	99-107		95-103		-		-	
			3 of 11	Mean	63.4	99.7	-	-	-	100.7	2 trials = 1 trial n.d.	-	-
				Min-max	63-63.9	99-100		-		100-101		-	
		Winter barley	13 of 13	Mean	100.7	102.1	2 trials > 4 trials = 7 trials n.d.	101.7	6 trials = 7 trials n.d.	-	-	-	-
				Min-max	100-101	99-107		96-108		-		-	
			8 of 13	Mean	60.3	102.9	-	-	-	102.5	4 trials = 4 trials n.d.	-	-
				Min-max	52.6-69.3	99-107		-		99-106		-	
Protein content	Maritime	Winter barley	8 of 8	Mean	13.0	100.3	1 trial = 7 trials n.d.	100.3	1 trial = 7 trials n.d.	-	-	-	-
				Min-max	11.7-14.5	97-107		96-105		-		-	

(%)			5 of 8	Mean	12.7	102.0	-	-	-	100.0	1 trial = 4 trials n.d.	-	-
				Min-max	11.7-14.1	97-107		-		95-103		-	
		Spring barley	1 of 1	Mean	12.6	95.6	1 trial =	-	-	-	-	99.6	1 trial =
				Min-max	-	-		-		-		-	
	North- east	Spring barley	10 of 10	Mean	14.2	100.9	5 trials = 5 trials n.d.	99.9	1 trial > 4 trials = 5 trials n.d.	-	-	-	-
				Min-max	11.4-17.6	97-103		95-104		-		-	
			3 of 10	Mean	13.6	100.3	-	-	-	99.7	2 trials = 1 trial n.d.	-	-
				Min-max	13.1-14	99-101		-		98-102		-	
		Winter barley	10 of 10	Mean	11.9	106.5	2 trials > 8 trials n.d.	106.7	2 trials = 8 trials n.d.	-	-	-	-
				Min-max	9.2-17.7	94-123		98-124		-		-	
			6 of 10	Mean	11.4	107.7	-	-	-	108.8	2 trials = 4 trials n.d.	-	-
				Min-max	9.2-13.9	98-123		-		98-123		-	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across all Maritime and North-East climatic zones demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha in many cases produced slight increases in grain quality as a direct function of efficacy against target diseases on barley and the loss of grain quality due to disease in the untreated control.

Any increases in quality of the grain produced by A12916B were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or at lower rates or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on barley.

Conclusion to “Yield and yield parameters from efficacy trials in the presence of challenging pest populations” for barley

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals), PP 1/181 (Conduct and reporting of efficacy evaluation trials, including good experimental practice), PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

The applicant presented yield results from 36 efficacy trials with a single application. An average grain yield increase of 10,0% in winter and spring barley could be achieved by applying the fungicide. There was also increase in green leaf area. In addition, there was no adverse effect on mean hectolitre weight, mean thousand weight and mean protein content in the barley trials.

It can be concluded to accept the yield data of efficacy trials provided by the applicant to demonstrate the efficacy of the applied plant protection product in barley.

3.2.3.5 Efficacy against target foliar diseases in rye

3.2.3.5.1 Leaf blotch (*Rhynchosporium secalis*: RHYNSE)

Syngenta comment	New data from 2020-2021 are provided for the purpose of this National Addendum.
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Efficacy data for Leaf blotch (RHYNSE) in rye are presented from 20 efficacy trials in the Maritime and North-east EPPO climatic zones and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2018, 2019, 2020 and 2021 in Germany (9 trials), Poland (10 trials) and Lithuania (1 trial). Out of these trials, 19 were carried out on winter rye and 1 was carried out on spring rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 23-28 to 55-59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-65: Efficacy against RHYNSE on winter and spring rye taken from 20 trials in Poland, Germany and Lithuania

Pest: <i>Rhynchosporium secalis</i> Application volume: 200-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750				A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONI L 200 + 1000		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.	% sev.	% eff.				
SECCW	DEFZZF1182018	14-May-18	0 - 7 %	55 - 59	31-May-18	69 - 69	17 (1)	LEAF2		9.2	a	1.9	cd	80.0	4.1	bc	56.0				
SECCW	DEDSZF3062019	24-Apr-19	3 - 8 %	32 - 32	17-Jun-19	65 - 65	54 (1)	LEAF3		16.6	a	8.2	b	51.0	7.1	b	57.0	6.9	b	58.0	
SECCW	DEDSZF9292019	03-May-19	0 - 5 %	49 - 51	20-Jun-19	73 - 75	48 (1)	LEAF2		36.2	a	7.5	df	79.0	7.5	df	79.0	4.6	f	87.0	
SECCW	DEFMZFI032018	08-May-18	-	55 - 55	19-Jun-18	75 - 75	42 (1)	LEAF3		10.2	b	5.9	b	42.0	7.3	b	29.0				
SECCW	PLSOZF1162018	30-Apr-18	0 - 8%	23 - 28	04-Jun-18	69 - 71	35 (1)	LEAF2		8.0	ab	1.5	bc	81.0	3.0	bc	62.0				
SECCW	DEBCZF6672021	03-May-21	-	45 - 53	01-Jun-21	61 - 65	29 (1)	LEAF 3		5.8	b	1.1	c	80.2				1.4	c	75.8 ^a	
SECCW	DEDSZF3182021	03-May-21	-	33 - 37	14-Jun-21	69 - 71	42 (1)	LEAF 3		5.2	a	1.9	bc	62.6				1.8	bc	65.4 ^a	
SECCW	DEDSZF9262021	18-May-21	-	45 - 49	09-Jun-21	57 - 61	22 (1)	LEAF 3		7.8	a	1	cd	86.6				3.2	b	59.5 ^a	
SECCW	DEDSZF9272021	19-May-21	-	47 - 51	09-Jun-21	61 - 65	21 (1)	LEAF 3		24.1	a	5.8	c	75.9				1.9	de	92 ^a	
SECCW	DEDSZF9292020	05-May-20	-	41 - 51	26-May-20	69 - 71	21 (1)	LEAF 4		8.5	a	0	d	100				0	d	100 ^a	
SECCW	DEDSZF9302020	06-May-20	-	37 - 45	08-Jun-20	69 - 71	33 (1)	LEAF 4		20.5	a	0	b	100				0.4	b	97.9 ^a	
SECCW	PLBCZF8622021	10-May-21	-	37 - 39	15-Jun-21	69 - 71	36 (1)	LEAF 3		14	a	1.4	cd	89.9				1.5	cd	89.2 ^a	
SECCW	PLBCZF8632021	15-May-21	-	41 - 45	30-Jun-21	75 - 75	46 (1)	LEAF 1		27.4	a	1.8	c	93.4				5.1	b	81.3 ^a	
SECCW	PLFPZF1082020	27-Apr-20	-	45 - 49	01-Jun-20	71 - 75	35 (1)	LEAF 3		5.5	a	0	c	100				0	c	100 ^a	
SECCW	PLSOZF6742021	11-May-21	-	39 - 39	24-Jun-21	75 - 75	44 (1)	LEAF 3		50.9	a	20	bc	60.8				17.8	bc d	65 ^a	
SECCW	PLSYZF6682021	11-May-21	-	37 - 39	22-Jun-21	75 - 83	42 (1)	LEAF 1		51.6	a	3.6	e	93				3	e	94.1 ^a	
SECCW	PLSYZF6692021	20-May-21	-	47 - 51	17-Jun-21	65 - 69	28 (1)	LEAF 2		15.7	a	2.2	bc	85.7				1.4	bc	91.3 ^a	
SECCW	PLSYZF6702021	13-May-21	-	37 - 37	10-Jun-21	61 - 65	28 (1)	LEAF 2		10.3	a	2.5	b	76				1.5	b	85.9 ^a	
SECCW	PLSYZF6712021	10-May-21	-	47 - 51	21-Jun-21	73 - 75	42 (1)	LEAF 2		16.9	a	4.4	d	73.7				5.2	cd	69.2 ^a	
SECCS	LTAKZF6662021	14-Jun-21	-	51 - 51	16-Jul-21	75 - 77	32 (1)	LEAF 2		29.6	a	6	b	79.7				6.1	b	79.5 ^a	
Mean % disease control across 19 trials – winter rye									Mean	18.1		79.5				-			-		
									Min-max	5.2-51.6		42-100				-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 5 trials – winter rye									Mean	16.0		66.6				56.6			-		
									Min-max	8-36.2		42-81				29-79			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 2 trials – winter rye									Mean	26.4		65.0				-			72.5		
									Min-max	16.6-36.2		51-79				-			58-87		

Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 14 trials – winter rye	Mean	18.9	84.1	-	83.3
	Min-max	5.2-51.6	60.8-100	-	59.5-100
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 L/ha across 1 trial – spring rye	Mean	29.6	79.7	-	79.5
	Min-max	-	-	-	-

^a FANDANGO 200 EC applied at 1.5 l/ha

On **winter rye**, by summarised assessments (17-54 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to high (5.2-51.6%) between trials. This represents up to a moderately severe test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 79.5% (range 42-100%) across 19 trials.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was higher than that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha across 5 trials and lower than that of the maximum label rate of 2.5 L product/ha, where included in 2 of the trials, although none of the differences were statistically significant. The efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was equivalent to that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha (84.1% vs. 83.3%), where included in 14 of the trials.

On **spring rye**, in 1 trial in Lithuania, at assessment on 32 DA-A1, mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control was moderate (29.6%).

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 79.7%.

The efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was equivalent to that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha (79.5%).

Overall conclusion

Data generated across trials carried out in Poland, Lithuania and Germany clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives full control of RHYNSE on winter rye.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was generally higher to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and lower to that of the maximum label rate of 2.5 L product/ha. A12916B applied at the proposed label rate of 1.5 L product/ha was equivalent to FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Trial data provided on spring rye confirm A12916B applied at the proposed label rate of 1.5 L product/ha comparable performance on both rye types what, by extrapolation, allows A12916B use for control of RHYNSE in spring rye (minor crop) to be registered according to Article 33 provisions.

Based on presented data and extrapolation, it is therefore considered that claim for control of Leaf blotch (RHYNSE) on winter and spring rye by A12916B applied at the proposed label rate of 1.5 L product/ha is fully supported in Poland.

Conclusion to *Rhynchosporium secalis* on rye

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials). These trials were carried out in 2018 - 2021 in Germany (9 trials), Poland (10 trials) and Lithuania (1 trial). Out of these trials, 19 were carried out on winter rye and 1 was carried out on spring rye. On these trials, treatments were applied at a single timing made when crop growth stages ranged from 23-28 to 55-59 (BBCH).

A12916B gave good control of *Rhynchosporium secalis* with an average 79.5% recorded about 34 (17–54) days after treatment with infection in the untreated ranging from 5.2-51.6 % (~18.1%). The efficacy

of the product varied from 42.0 to 100%. The overall efficacy of A12916B was slightly higher than that of the standard reference product A14111B applied at 1.25 l/ha and comparable to that at 2.5 l/ha and equivalent that of the standard reference product FANDANGO 200 EC applied at 1.5 l/ha. On spring rye, a single application of A12916B gave a level of control of 79.7%.

It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against *Rhynchosporium secalis* on spring and winter rye.

3.2.3.5.2 Brown rust (*Puccinia recondita*: PUCCRE)

Syngenta comment	New data from 2020-2021 are provided for the purpose of this National Addendum.
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Efficacy data for Brown rust (PUCCRE) in rye are presented from 13 efficacy trials in the Maritime and North-east EPPO climatic zones and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2018, 2019, 2020 and 2021 in Poland (7 trials) and Germany (6 trials). All trials were carried out on winter rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 32 to 55-59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-66: Efficacy against Puccinia recondita on winter rye taken from 13 trials in Poland and Germany

Pest: <i>Puccinia recondita</i> Application volume: 150-300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		
									Product Rate Active Ingredient(s) gai/ha			% sev.		% eff.	% sev.		% eff.	% sev.		% eff.
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed												
SECCW	DEFZZF1182018	14-May-18	-	55 - 59	07-Jun-18	73 - 73	24 (1)	LEAF1				12.9	a	3.9	bd	70.0	2.8	cd	78.0	
SECCW	DEDSZF3062019	24-Apr-19	1 - 3 %	32 - 32	06-Jun-19	61 - 65	43 (1)	LEAF2				6.2	a	2.4	d	62.0	1.5	de	76.0	1.1
SECCW	DEDSZF9292019	03-May-19	0 - 1 %	49 - 51	03-Jun-19	69 - 71	31 (1)	LEAF2				9.0	a	0.1	d	99.0	0.4	cd	95.0	0.1
SECCW	DESYZF7612019	14-May-19	-	49 - 51	21-Jun-19	73 - 75	38 (1)	LEAF2				5.4	a	0.2	ce	95.0	0.5	ce	91.0	0.2
SECCW	PLSOZF1162018	30-Apr-18	-	23 - 28	14-Jun-18	73 - 75	45 (1)	LEAF3				9.2	b	3.0	c	68.0	2.8	c	70.0	
SECCW	PLSYZF7622019	01-May-19	0 - 1 %	39 - 45	10-Jun-19	73 - 77	40 (1)	LEAF3				6.6	a	2.1	bc	68.0	1.4	cd	79.0	1.3
SECCW	PLSYZF7632019	26-Apr-19	1 - 4 %	39 - 47	31-May-19	65 - 69	35 (1)	LEAF2				7.0	b	2.9	ce	59.0	2.4	ce	65.0	0.9
SECCW	PLSYZF7642019	25-Apr-19	0 - 5 %	43 - 49	30-May-19	65 - 69	35 (1)	LEAF2				7.2	b	2.8	d	61.0	2.7	d	63.0	2.1
SECCW	PLSYZF7652019	13-May-19	0 - 3 %	49 - 51	10-Jun-19	75 - 77	28 (1)	LEAF1				61.4	a	3.4	d	94.0	3.3	d	95.0	2.0
SECCW	PLBCZF8622021	10-May-21	-	37 - 39	30-Jun-21	73 - 75	51 (1)	LEAF 2				12.2	a	2.7	de	77.5				0.5
SECCW	DEDSZF9292020	05-May-20	-	41 - 51	29-Jun-20	73 - 77	55 (1)	LEAF 1				35.6	a	0.4	g	99				1.9
SECCW	DEDSZF9302020	06-May-20	-	37 - 45	24-Jun-20	73 - 77	49 (1)	LEAF 2				28.1	a	7.6	c	72.8				0.9
SECCW	PLFPZF1082020	27-Apr-20	-	45 - 49	15-Jun-20	75 - 85	49 (1)	LEAF 3				7.4	a	1.3	b	82				1.5
Mean % disease control across 13 trials									Mean	16.0		77.5			-			-		
									Min-max	5.4-61.4		59-99			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 9 trials									Mean	13.9		75.1			79.1			-		
									Min-max	5.4-61.4		59-99			63-95			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 7 trials									Mean	14.7		76.9			-			87.7		
									Min-max	5.4-61.4		59-99			-			71-99		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 4 trials									Mean	20.8		82.8			-			91.9		
									Min-max	7.4-35.6		72.8-99			-			79.5-97		

^a FANDANGO 200 EC applied at 1.5 l/ha

By summarised assessments (24-55 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to high (5.4-61.4%) on all trials. This represents up to a moderately severe test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 77.5% (range 59.0-99.0%) across these 13 trials.

The efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was not statistically significantly different to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in any of the 9 trials in which this rate was included and was statistically significantly lower than that of the maximum label rate of 2.5 L product/ha only in 1 of the 7 trials in which this rate was included. The efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was lower to that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha (82.8% vs. 91.9%), where included in 4 of the trials. Statistically significant differences with lower results were recorded in 2 trials.

Overall conclusion

Data generated across trials carried out in Poland and Germany clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of Puccinia on winter rye.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha although was slightly lower to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and lower to that of the dose rate of 2.5 L product/ha, the differences were not statistically significant on majority of the trials.

Based on presented data, it is therefore considered that claim for control of Brown rust (Puccinia) in winter rye by A12916B applied at the proposed label rate of 1.5 L product/ha is fully supported in Poland.

As no data available, registration of A12916B applied at the proposed label rate of 1.5 L product/ha against Puccinia on spring rye which is minor crop in Poland is requested according to the Article 51 provisions.

Conclusion to *Puccinia recondita* on rye

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products) and PP 1/226 (Number of efficacy trials).

Data were presented from Poland (7 trials) and Germany (6 trials). A12916B gave good control of *Puccinia recondita* with an average 77.5% recorded about 40 (24 – 55) days after treatment with infection in the untreated ranging from 5.4 to 61.4.8 % (~16.0%). The efficacy of the product varied from 59.0 to 99.0%. The overall efficacy of A12916B was slightly higher than that of the standard reference product A14111B applied at 1.25 l/ha and comparable to that at 2.5 l/ha and lower than that of the standard reference product FANDANGO 200 EC applied at 1.5 l/ha.

It can be concluded to accept the data provided by the applicant to demonstrate the effectiveness against *Puccinia recondita* on winter rye.

3.2.3.5.3 Powdery mildew (*Blumeria graminis*: ERYSGR)

Syngenta comment	No new data are provided for the purpose of this National Addendum. Additional argumentaion on possible extrapolation is provided.
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Efficacy data for Powdery mildew (ERYSGR) in rye are presented from 2 efficacy trials in the North-east climatic zone and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. Both trials were carried out in 2019 in Poland on winter rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 39-47 to 43-49 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

The locations and distribution of all trials within the North-east EPPO climatic zone from which data are summarised in support of demonstrating efficacy against ERYSGR in rye are shown on the following map.

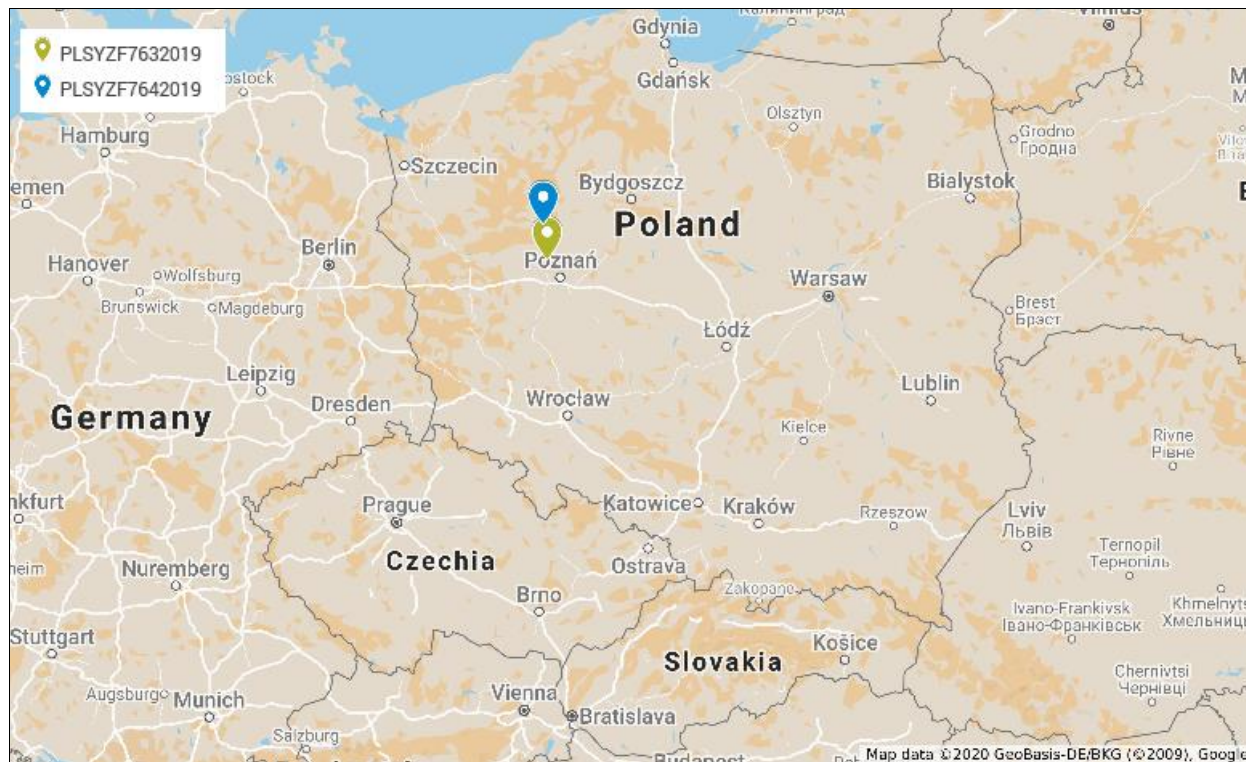


Table 3.2-67: Efficacy against ERYSGR on rye taken from 2 trials in the North-east climatic zone

Pest: <i>Blumeria graminis</i> Application volume: 150 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.		% sev.	% eff.	% sev.	% eff.	% sev.	% eff.
SECCW	PLSYZF7632019	26-Apr-19	3 - 6 %	39 - 47	10-Jun-19	73 - 75	45 (1)	LEAF3		11.8 b	5.6 e	53.0	5.8 e	51.0	3.9 fg	67.0
SECCW	PLSYZF7642019	25-Apr-19	0 - 5 %	43 - 49	30-May-19	65 - 69	35 (1)	LEAF3		11.1 b	4.9 de	56.0	4.7 de	58.0	2.8 fg	75.0
Direct comparison of A12916B to A14111B applied at 1.25 L and 2.5 L/ha across 2 trials							35-45 DA-A1	LEAF 3	No. of trials	2	2	2	2			
									Mean	11.5	54.5	54.5	71.0			
									Min-max	11.1-11.8	53.0-56.0	51.0-58.0	67.0-75.0			
									S.D.	-	2.12	4.95	5.66			

By summarised assessments (35-45 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control was relatively low (11.1-11.8%) on both trials. This represents a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 54.5% (range 53.0-56.0%) across these 2 trials.

The efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was comparable to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha but significantly lower than that of the maximum label rate of 2.5 L product/ha on both trials.

Overall conclusion

A total of 2 trials were carried out in 2019 to evaluate the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha for control of Powdery mildew (ERYSGR) in rye. Both trials were carried out in the North-east climatic zone (Poland) on winter rye.

Extrapolation

According to the latest Polish guidance document 'Arrangements on making an assessment or comments on plant protection products by authorized entities – efficacy of plant protection products' and its Appendix 2 requirements, ERYSGR in winter rye can be authorised by data extrapolation from winter wheat or winter triticale with additional 1-2 confirmatory trials.

ERYSGR control in winter triticale is supported by data from 5 trials from Poland and Germany with efficacy reaching 74.5% control level. With addition of 2 trials from Poland in winter rye it can be considered that the extrapolation requirement is met.

Based on presented data and extrapolation, it is therefore considered that claim for control of Powdery mildew (ERYSGR) in winter rye by A12916B applied at the proposed label rate of 1.5 L product/ha is fully supported in Poland.

As no data available, registration of A12916B applied at the proposed label rate of 1.5 L product/ha against ERYSGR on spring rye which is minor crop in Poland is requested according to the Article 51 provisions.

Conclusion to *Blumeria graminis* on rye

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

Infection by *Blumeria graminis* was verified at acceptable levels in a total of 2 efficacy trials conducted in the North-east climatic zone. On these trials, treatments were applied at a single timing made when crop growth stages ranged from 39-47 to 43-49 (BBCH).

On winter rye summarised assessments showed a mean severity reduction of 54.5% (untreated mean 11.5% range 11.1-11.8%). The observed levels of control were generally similar to the efficacy provided by reference products.

The national guidance states that for *Blumeria graminis*, it is possible to extrapolate from winter triticale to rye. These data support the claim of 'moderate control' of powdery mildew (ERYSGR) on rye.

3.2.3.5.4 Yield (and relevant quality indicators), from efficacy trials (in the presence of challenging pest populations) - rye

Plant quality

EPPO climatic zone – Maritime

Green leaf area data from 10 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in rye are presented in Table 3.2-. These trials were carried out in 2018, 2019, 2020 and 2021 in Germany. All these trials were carried out on winter rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on rye.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 32 to 55-59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-68: Plant quality data (% green leaf area) on rye taken from 10 trials that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONI L 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean		Mean		Mean	
SECCW	DEFZZF1182018	PUCCRE, RHYNSE	55 - 59	24 (1)		30.0	c	55.0	ab	67.5	ab				
SECCW	DEDSZF3062019	PUCCRE, RHYNSE	32 - 32	75 (1)		8.0	a	10.0	a	9.8	a	9.8	a		
SECCW	DEDSZF9292019	PUCCRE, RHYNSE	49 - 51	48 (1)		27.5	d	50.0	ab	50.0	ab	50.0	ab		
SECCW	DEFMZFI032018	RHYNSE	55 - 55	51 (1)		13.8	ab	16.5	a	17.8	a				
SECCW	DESYZF7612019	PUCCRE, SEPTTR*	49 - 51	48 (1)		23.8	c	42.5	ac	51.2	ab	68.8	a		
SECCW	DEBCZF6672021	Various	45 - 53	57 (1)		14.5	c	29.6	b					34.9	ab
SECCW	DEDSZF9262021	Various	45 - 49	38 (1)		50	c	60	b					60	b
SECCW	DEDSZF9272021	Various	47 - 51	37 (1)		52.5	c	57.5	bc					60	ab
SECCW	DEDSZF9292020	Various	41 - 51	55 (1)		20	c	52.5	a					50	a
SECCW	DEDSZF9302020	Various	37 - 45	49 (1)		56.3	bc	69	ab					65	ab
Mean green leaf area following A12916B applied at 1.5 L/ha across 10 trials					Mean	29.6		44.3		-		-		-	
					Min-max	8-56.3		10-69		-		-		-	
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 5 trials					Mean	20.6		34.8		39.3		-		-	
					Min-max	8-30		10-55		9.8-67.5		-		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials					Mean	19.8		34.2		-		42.9		-	
					Min-max	8-27.5		10-50		-		9.8-68.8		-	
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 5 trials					Mean	38.7		53.7		-		-		54.0	
					Min-max	14.5-56.3		29.6-69		-		-		34.9-65	

* non-target disease also was present in the trial

At summarised assessments (24-75 DA-A1) on the 10 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control.

The increases in green leaf area produced by A12916B at the label rate of 1.5 L product/ha were slightly lower to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in 5 trials and at the maximum label rate of 2.5 L product/ha where included in 3 of the trials. The increases in green leaf area produced by A12916B at the label rate of 1.5 L product/ha were comparable to those produced by the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha, where included in 5 of the trials.

Increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Green leaf area data from 13 efficacy trials in the North-east climatic zone that generated valid data on target diseases in rye are presented in Table 3.2-. All these trials were carried out in 2018, 2019, 2020 and 2021 in Poland on winter rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on rye.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 23-28 to 49-51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-69: Plant quality data (% green leaf area) on winter rye taken from 13 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOL E + FLUOXASTROBIN 150+150	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean		Mean			
SECCW	PLSOZF1162018	PUCCRE, RHYNSE	23 - 28	53 (1)		10.5	cd	33.8	ab	21.2	ac				
SECCW	PLSYZF7622019	PUCCRE	39 - 45	40 (1)		0.0	f	10.0	de	10.0	de	20.0	b		
SECCW	PLSYZF7632019	ERYSGR, PUCCRE	39 - 47	45 (1)		17.5	e	42.5	bd	40.0	cd	50.0	ac		
SECCW	PLSYZF7642019	ERYSGR, PUCCRE	43 - 49	49 (1)		25.0	e	55.0	b	50.0	c	55.0	b		
SECCW	PLSYZF7652019	PUCCRE	49 - 51	28 (1)		15.0	e	85.0	ab	81.2	b	85.0	ab		
SECCW	PLBCZF8622021	Various	37 - 39	51 (1)		42.5	d	67.5	ab					67.5	ab
SECCW	PLBCZF8632021	Various	41 - 45	46 (1)		34.7	c	57.5	a					52.5	a
SECCW	PLFPZF1082020	Various	45 - 49	64 (1)		23.4	d	28.6	bcd					36.1	ab
SECCW	PLSOZF6742021	Various	39 - 39	44 (1)		52	d	73.5	ab					77.5	a
SECCW	PLSYZF6682021	Various	37 - 39	42 (1)		17.2	c	30	ab					32.4	ab
SECCW	PLSYZF6692021	Various	47 - 51	40 (1)		23.7	c	27.5	bc					38.7	a
SECCW	PLSYZF6702021	Various	37 - 37	53 (1)		32.4	a	42.5	a					42.5	a
SECCW	PLSYZF6712021	Various	47 - 51	50 (1)		62.5	b	75.1	a					71.3	a
Mean green leaf area following A12916B applied at 1.5 L/ha across 13 trials					Mean	27.4		48.3		-		-		-	
					Min-max	0-62.5		10-85		-		-		-	
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 5 trials					Mean	13.6		45.3		40.5		-		-	
					Min-max	0-25		10-85		10-81.2		-		-	
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 4 trials					Mean	14.4		48.1		-		52.5		-	
					Min-max	0-25		10-85		-		20-85		-	
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 8 trials					Mean	36.1		50.3		-		-		52.3	
					Min-max	17.2-62.5		27.5-75.1		-		-		32.4-77.5	

At summarised assessments (28-64 DA-A1) on the 13 efficacy trials where differences in green leaf area occurred, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased green leaf area, compared to the untreated control.

The increases in green leaf area produced by A12916B at the label rate of 1.5 L product/ha were generally similar to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in 5 trials, at the maximum label rate of 2.5 product/ha, where included in 4 of the trials, and FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha, where included in 8 of the trials.

Increases in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Plant quality on rye efficacy trials: Overall conclusion from all EPPO climatic zones

A total of 23 of the trials carried out in 2018, 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases in rye also generated data on green leaf area. All these trials were carried out on winter rye.

Of these 23 trials, 10 were carried out in the Maritime climatic zone (Germany) and 13 were carried out in the North-east climatic zone (Poland).

Single applications of the treatments were made when crop growth stages ranged from 23 to 59 (BBCH) across trials.

An overall summary of effects on green leaf area of A12916B, compared to those of the standard reference product, across these 23 trials is given in Table 3.2-.

Table 3.2-70: Effects on plant quality of A12916B across efficacy trials on rye

EPPO climatic zone	Crop	No. of trials		Mean % green leaf area at final assessment timings								
				Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*
					1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.5 LPR/HA	
Maritime	Winter rye	10 of 10	Mean	29.6	44.3	5 trials >	-	-	-	-	-	-
			Min-max	8-56.3	10-69	5 trials =	-	-	-	-	-	-
		5 of 10	Mean	20.6	34.8	-	39.3	5 trials =	-	-	-	-
			Min-max	8-30	10-55	-	9.8-67.5	-	-	-	-	-
		3 of 10	Mean	19.8	34.2	-	-	-	42.9	3 trials =	-	-
			Min-max	8-27.5	10-50	-	-	-	9.8-68.8	-	-	-
		5 of 10	Mean	38.7	53.7	-	-	-	-	-	54.0	5 trials =
			Min-max	14.5-56.3	29.6-69	-	-	-	-	-	34.9-65	-
North-east	Winter rye	13 of 13	Mean	27.4	48.3	10 trials >	-	-	-	-	-	-
			Min-max	0-62.5	10-85	3 trials =	-	-	-	-	-	-
		5 of 13	Mean	13.6	45.3	-	40.5	1 trial >	-	-	-	-
			Min-max	0-25	10-85	-	10-81.2	4 trials =	-	-	-	-
		4 of 13	Mean	14.4	48.1	-	-	-	52.5	2 trials <	-	-
			Min-max	0-25	10-85	-	-	-	20-85	2 trials =	-	-
		8 of 13	Mean	36.1	50.3	-	-	-	-	-	52.3	8 trials =
			Min-max	17.2-62.5	27.5-75.1	-	-	-	-	-	32.4-77.5	-

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across Maritime and North-east EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increases green leaf area as a direct function of efficacy against target diseases on rye and adverse effects of the disease in the untreated control.

Increases in green leaf area produced by A12916B were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or at a lower rate or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Increases in green leaf area produced by A12916B in these trials can be directly attributed to control of the target diseases and provide further evidence of the efficacy of A12916B against these diseases on rye.

Crop yield

EPPO climatic zone – Maritime

Crop yield data from 11 efficacy trials in the Maritime climatic zone that generated valid data on target diseases in rye are presented in Table 3.2-. These trials were carried out in 2018, 2019, 2020 and 2021 in Germany. All these trials were carried out on winter rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in rye.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 32 to 55-59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-71: Crop yield data on winter rye taken from 11 trials that generated valid efficacy data on target diseases in the Maritime climatic zone

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
SECCW	DEFZZF1182018	PUCCRE, RHYNSE	55 - 59	71 (1)		60.0	a	58.9	a	98.0	58.4	a	97.0						
SECCW	DEDSZF3062019	PUCCRE, RHYNSE	32 - 32	94 (1)		78.7	a	82.1	a	104.0	80.0	a	102.0	82.4	a	105.0			
SECCW	DEDSZF9292019	PUCCRE, RHYNSE	49 - 51	97 (1)		53.9	a	52.5	a	97.0	53.9	a	100.0	54.2	a	101.0			
SECCW	DEFMZFI032018	RHYNSE	55 - 55	78 (1)		106.4	a	109.0	a	102.0	108.4	a	102.0						
SECCW	DESYZF7612019	PUCCRE, SEPTTR*	49 - 51	90 (1)		109.7	b	114.1	ab	104.0	115.7	ab	105.0	114.2	ab	104.0			
SECCW	DEBCZF6672021	Various	45 - 53	114 (1)		51.3	a	56.7	a	110.5							60.9	a	118.8
SECCW	DEDSZF3182021	Various	33 - 37	91 (1)		99.3	c	103.6	abc	104.4							105.8	ab	106.6
SECCW	DEDSZF9262021	Various	45 - 49	91 (1)		70.4	b	70.2	b	99.7							73.5	ab	104.4
SECCW	DEDSZF9272021	Various	47 - 51	89 (1)		71.6	c	77.9	ab	108.8							79.9	a	111.6
SECCW	DEDSZF9292020	Various	41 - 51	92 (1)		79.5	ab	79.4	ab	99.9							81	ab	101.9
SECCW	DEDSZF9302020	Various	37 - 45	93 (1)		75.4	a	73.9	a	98.1							69.5	a	92.3
Mean yield following A12916B applied at 1.5 L/ha across 11 trials					Mean	77.8		102.4			-			-			-		
					Min-max	51.3-109.7		97-110.5			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 5 trials					Mean	81.7		101.0			101.2			-			-		
					Min-max	53.9-109.7		97-104			97-105			-			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials					Mean	80.8		101.7			-			103.3			-		
					Min-max	53.9-109.7		97-104			-			101-105			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 6 trials					Mean	74.6		103.6			-			-			105.9		
					Min-max	51.3-99.3		98.1-110.5			-			-			92.3-118.8		

* non-target disease also was present in the trial

On the majority of the trials, A12916B applied at the proposed label rate of 1.5 L product/ha slightly increased crop yield, compared to the untreated control. Statistically significant difference was recorded in 1 of the 11 trials.

Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were similar to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in 5 trials, at the maximum label rate of 2.5 L product/ha, where included in 3 of the trials, and to FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha in 6 trials.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Crop yield data from 13 efficacy trials in the North-east climatic zone that generated valid on target diseases in rye are presented in Table 3.2-. These trials were carried out in 2018, 2019, 2020 and 2021 in Poland. Out of 13 trials, 12 were carried out on winter rye and 1 was carried out on spring rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in rye.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 23-28 to 49-51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-72: Crop yield data on winter and spring rye taken from 13 trials that generated efficacy valid data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
SECCW	PLSOZF1162018	PUCCRE, RHYNSE	23 - 28	84 (1)		68.3	a	73.2	a	107.0	67.1	a	98.0						
SECCW	PLSYZF7622019	PUCCRE	39 - 45	62 (1)		49.7	c	56.6	ab	114.0	57.2	ab	115.0	60.5	ab	122.0			
SECCW	PLSYZF7642019	ERYSGR, PUCCRE	43 - 49	82 (1)		53.5	c	60.0	b	112.0	59.7	b	112.0	61.1	b	114.0			
SECCW	PLSYZF7652019	PUCCRE	49 - 51	69 (1)		60.8	c	80.0	a	132.0	79.8	a	131.0	78.4	a	129.0			
SECCW	PLBCZF8622021	Various	37 - 39	105 (1)		99.5	a	101.2	a	101.7							101.8	a	102.3
SECCW	PLBCZF8632021	Various	41 - 45	96 (1)		52.1	e	61.9	c	118.7							67.1	ab	128.8
SECCW	PLFPZF1082020	Various	45 - 49	92 (1)		72.4	ab	77.6	ab	107.1							78.2	ab	108
SECCW	PLSOZF6742021	Various	39 - 39	94 (1)		105.3	a	107.9	a	102.5							113.6	a	107.9
SECCW	PLSYZF6682021	Various	37 - 39	78 (1)		39.5	c	44.3	bc	112.3							46.3	b	117.3
SECCW	PLSYZF6692021	Various	47 - 51	74 (1)		34.5	b	39.7	ab	115.1							41.2	ab	119.3
SECCW	PLSYZF6702021	Various	37 - 37	81 (1)		48.1	c	53.8	ab	111.8							51.3	b	106.7
SECCW	PLSYZF6712021	Various	47 - 51	79 (1)		51.7	b	61.6	a	119.1							62.3	a	120.5
SECCS	LTAKZF6662021	Various	51 - 51	60 (1)		24.3	a	27.3	a	112.1							25.6	a	105
Mean yield following A12916B applied at 1.5 L/ha across 12 trials – winter rye					Mean	61.3		112.8			-			-			-		
					Min-max	34.5-105.3		101.7-132			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 4 trials – winter rye					Mean	58.1		116.3			114.0			-			-		
					Min-max	49.7-68.3		107-132			98-131			-			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – winter rye					Mean	54.7		119.3			-			121.7			-		
					Min-max	49.7-60.8		112-132			-			114-129			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 8 trials – winter rye					Mean	62.9		111.0			-			-			113.9		
					Min-max	34.5-105.3		101.7-119.1			-			-			102.3-128.8		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 1 trial – spring rye					Mean	24.3		112.1			-			-			105		
					Min-max	-		-			-			-			-		

On **winter rye** trials, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased crop yield (+12.8%), compared to the untreated control, and on 6 of the 12 trials the increases were statistically significant.

Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were not statistically significantly different to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in 4 trials and at the maximum label rate of 2.5 L product/ha, where included in 3 of the trials. Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were only slightly lower to those of FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha, being statistically not significantly different in 11 out of 12 trials.

On one **spring rye** trial, A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield (+12.1%), compared to the untreated control. The increase was not statistically significant.

The effect on crop yield produced by A12916B at the label rate of 1.5 L product/ha was higher to that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha, but the difference was not statistically significant.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Crop yield on rye efficacy trials: Overall conclusion from Maritime and North-East EPPO climatic zones

A total of 24 trials carried out in 2018, 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on rye also generated data on crop yield. Out of 24 trials, 23 were carried out on winter rye and 1 was carried out on spring rye.

Of these 24 trials, 11 were carried out in the Maritime climatic zone (Germany) and 13 were carried out in the North-east climatic zone (12 in Poland and 1 in Lithuania).

Single applications of the treatments were made when crop growth stages ranged from 23 to 59 (BBCH) across trials.

An overall summary of effects on crop yield of A12916B, compared to those of the standard reference product, across these 24 trials is given in Table 3.2-8.

Table 3.2-8: Effects on crop yield of A12916B across efficacy trials on rye

EPPO climatic zone	Crop	No. of trials		Mean crop yield (as % of untreated)								
				Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*
					1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.5 LPR/HA	
Maritime	Winter rye	11 of 11	Mean	77.8	102.4	1 trial > 10 trials =	-	-	-	-	-	-
			Min-max	51.3-109.7	97-110.5		-		-		-	
		5 of 11	Mean	81.7	101.0	-	101.2	5 trials =	-	-	-	-
			Min-max	53.9-109.7	97-104		97-105		-		-	
		3 of 11	Mean	80.8	101.7	-	-	-	103.3	3 trials =	-	-
			Min-max	53.9-109.7	97-104		-		101-105		-	
		6 of 11	Mean	74.6	103.6	-	-	-	-	-	105.9	6 trials =
			Min-max	51.3-99.3	98.1-110.5		-		-		92.3-118.8	
North-east	Winter rye	12 of 12	Mean	61.3	112.8	6 trials > 6 trials =	-	-	-	-	-	-
			Min-max	34.5-105.3	101.7-132		-		-		-	
		4 of 12	Mean	58.1	116.3	-	114.0	4 trials =	-	-	-	-
			Min-max	49.7-68.3	107-132		98-131		-		-	
		3 of 12	Mean	54.7	119.3	-	-	-	121.7	3 trials =	-	-
			Min-max	49.7-60.8	112-132		-		114-129		-	
		8 of 12	Mean	62.9	111.0	-	-	-	-	-	113.9	8 trials =
			Min-max	34.5-105.3	101.7-119.1		-		-		102.3-128.8	
	Spring rye	1 of 1	Mean	24.3	112.1	1 trial =	-	-	-	-	105	1 trial =
			Min-max	-	-		-		-		-	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out across Maritime and North-east EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increased crop yield, compared to the untreated control, on the majority of the trials as a direct function of efficacy against target diseases and on 7 of the trials the increases were statistically significant.

Any increases in crop yield produced by A12916B were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or at a lower rate or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 L/ha.

Where occurring, increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on rye.

Yield quality

EPPO climatic zone – Maritime

Grain quality parameter data from 11 of the efficacy trials in the Maritime climatic zone that generated valid data on target diseases in rye are presented in Table 3.2- (TGW), Table 3.2- (HLW) and Table 3.2- (protein content). These trials were carried out in 2018, 2019, 2020 and 2021 in Germany. All these trials were carried out on winter rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in rye.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 32 to 55-59 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-74: TGW data on winter rye taken from 9 trials that generated valid efficacy data on target diseases in the Maritime climatic zone

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
SECCW	DEFZZF1182018	PUCCRE, RHYNSE	55 - 59	71 (1)		21.4		22.1		103.0	21.2		99.0						
SECCW	DEDSZF3062019	PUCCRE, RHYNSE	32 - 32	145 (1)		31.2		31.2		100.0	32.0		103.0	32.6		104.0			
SECCW	DEDSZF9292019	PUCCRE, RHYNSE	49 - 51	137 (1)		30.1		29.6		98.0	27.8		92.0	29.5		98.0			
SECCW	DEFMZFI032018	RHYNSE	55 - 55	86 (1)		35.5	b	35.4	b	100.0	35.4	b	100.0						
SECCW	DESYZF7612019	PUCCRE, SEPTTR*	49 - 51	100 (1)		36.0	c	39.3	ab	109.0	38.2	ab	106.0	38.6	ab	107.0			
SECCW	DEBCZF6672021	Various	45 - 53	114 (1)		28.3		29.5		104.2							30		106.1
SECCW	DEDSZF3182021	Various	33 - 37	128 (1)		28		26.9		96.1							27.6		98.6
SECCW	DEDSZF9262021	Various	45 - 49	168 (1)		26.4		26.3		99.6							25.7		97.3
SECCW	DEDSZF9272021	Various	47 - 51	167 (1)		27.4		26.2		95.6							27.1		98.9
Mean TGW following A12916B applied at 1.5 L/ha across 9 trials					Mean	29.4		100.6			-			-			-		
					Min-max	21.4-36		95.6-109			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 5 trials					Mean	30.8		102.0			100.0			-			-		
					Min-max	21.4-36		98-109			92-106			-			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials					Mean	32.4		102.3			-			103.0			-		
					Min-max	30.1-36		98-109			-			98-107			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 4 trials					Mean	27.5		98.9			-			-			100.2		
					Min-max	26.4-28.3		95.6-104.2			-			-			97.3-106.1		

* non-target disease also was present in the trial

Table 3.2-75: Grain HLW data on winter rye taken from 11 trials that generated valid efficacy on target diseases data in the Maritime climatic zone

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		% untreated	Mean		% untreated	Mean		% untreated	Mean		% untreated
SECCW	DEFZZF1182018	PUCCRE, RHYNSE	55 - 59	71 (1)		73.1	a	72.1	a	99.0	71.5	a	98.0						
SECCW	DEDSZF3062019	PUCCRE, RHYNSE	32 - 32	94 (1)		71.6	a	71.2	a	99.0	70.7	a	99.0	71.2	a	100.0			
SECCW	DEDSZF9292019	PUCCRE, RHYNSE	49 - 51	103 (1)		68.4	a	68.0	a	99.0	67.0	a	98.0	67.6	a	99.0			
SECCW	DEFMZFI032018	RHYNSE	55 - 55	86 (1)		72.6	ab	72.7	ab	100.0	72.1	b	99.0						
SECCW	DESYZF7612019	PUCCRE, SEPTTR*	49 - 51	112 (1)		74.8	a	75.3	a	101.0	74.5	a	100.0	74.8	a	100.0			
SECCW	DEBCZF6672021	Various	45 - 53	114 (1)		58.8		60.8		103.3							62		105.5
SECCW	DEDSZF3182021	Various	33 - 37	91 (1)		61.9	a	62.1	a	100.4							62.3	a	100.6
SECCW	DEDSZF9262021	Various	45 - 49	91 (1)		66.3	a	67.2	a	101.2							66.8	a	100.7
SECCW	DEDSZF9272021	Various	47 - 51	89 (1)		62.6	a	62.8	a	100.4							63	a	100.7
SECCW	DEDSZF9292020	Various	41 - 51	92 (1)		69	a	68.7	a	99.5							69.9	a	101.2
SECCW	DEDSZF9302020	Various	37 - 45	93 (1)		69.7	a	69.1	a	99.1							67.9	a	97.4
Mean HLW following A12916B applied at 1.5 L/ha across 11 trials					Mean	68.1		100.2			-			-			-		
					Min-max	58.8-74.8		99-103.3			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 5 trials					Mean	72.1		99.6			98.8			-			-		
					Min-max	68.4-74.8		99-101			98-100			-			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials					Mean	71.6		99.7			-			99.7			-		
					Min-max	68.4-74.8		99-101			-			99-100			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 6 trials					Mean	64.7		100.7			-			-			101.0		
					Min-max	58.8-69.7		99.1-103.3			-			-			97.4-105.5		

* non-target disease also was present in the trial

Table 3.2-76: Grain protein content data on winter rye taken from 11 trials that generated valid efficacy on target diseases data in the Maritime climatic zone

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 200-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUXASTROBIN 150+150	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n				Mean	% untreated	Mean	% untreated	Mean	% untreated	Mean	% untreated
SECCW	DEFZZF1182018	PUCCRE, RHYNSE	55 - 59	71 (1)			11.5		12.4	108.0	12.7	110.0			
SECCW	DEDSZF3062019	PUCCRE, RHYNSE	32 - 32	145 (1)			8.7		8.4	97.0	8.4	97.0	8.9	102.0	
SECCW	DEDSZF9292019	PUCCRE, RHYNSE	49 - 51	137 (1)			11.8		11.6	98.0	11.7	99.0	11.9	101.0	
SECCW	DEFMZF1032018	RHYNSE	55 - 55	92 (1)			7.8		8.0	103.0	8.2	105.0			
SECCW	DESYZF7612019	PUCCRE, SEPTTR*	49 - 51	93 (1)		a	9.8	a	9.9	101.0	9.8	101.0	9.6	a	99.0
SECCW	DEBCZF6672021	Various	45 - 53	114 (1)			9.2		9.3	100.5				9.2	99.5
SECCW	DEDSZF3182021	Various	33 - 37	128 (1)			7.9		8.4	106.3				8.2	103.8
SECCW	DEDSZF9262021	Various	45 - 49	168 (1)			8.6		8.5	98.8				8.6	100
SECCW	DEDSZF9272021	Various	47 - 51	167 (1)			8.5		9.1	107.1				8.9	104.7
SECCW	DEDSZF9292020	Various	41 - 51	173 (1)			9.2		9.2	100				9.3	101.1
SECCW	DEDSZF9302020	Various	37 - 45	172 (1)			9.7		9.8	101				10	103.1
Mean Grain protein following A12916B applied at 1.5 L/ha across 11 trials					Mean		9.3		101.9		-		-		-
					Min-max		7.8-11.8		97-108		-		-		-
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 5 trials					Mean		9.9		101.4		102.4		-		-
					Min-max		7.8-11.8		97-108		97-110		-		-
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials					Mean		10.1		98.7		-		100.7		-
					Min-max		8.7-11.8		97-101		-		99-102		-
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 6 trials					Mean		8.9		102.3		-		-		102.0
					Min-max		7.9-9.7		98.8-107.1		-		-		99.5-104.7

* non-target disease also was present in the trial

In a few cases on these trials, A12916B applied at the proposed label rate of 1.5 L product/ha slightly increased HLW, TGW and protein content of the grain, compared to the untreated control.

Any effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied 1.25 L product/ha in 5 trials and at the maximum label rate of 2.5 L product/ha, in 3 trials or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha in 6 trials.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Grain quality parameter data from 13 efficacy trials in the North-east climatic zone that generated valid data on target diseases in rye are presented in Table 3.2- (TGW),

Table 3.2- (HLW) and Table 3.2- (protein content). These trials were carried out in 2018, 2019, 2020 and 2021 in Poland (12 trials) and Lithuania (1 trial). Out of these, 12 trials were carried out on winter rye and 1 was carried out on spring rye.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in rye.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 23-28 to 49-51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Table 3.2-77: TGW data on winter and spring rye taken from 13 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000		FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150					
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated		<i>Mean</i>		% untreated		<i>Mean</i>		% untreated	
SECCW	PLSOZF1162018	PUCCRE, RHYNSE	23 - 28	114 (1)		34.8		35.3		102.0	35.7		103.0						
SECCW	PLSYZF7622019	PUCCRE	39 - 45	62 (1)		31.4		32.7		104.0	32.2		103.0	33.1		105.0			
SECCW	PLSYZF7642019	ERYSGR, PUCCRE	43 - 49	82 (1)		33.2	b	34.8	a	105.0	34.1	a	103.0	34.2	a	103.0			
SECCW	PLSYZF7652019	PUCCRE	49 - 51	70 (1)		28.9		33.3		115.0	33.6		116.0	33.9		117.0			
SECCW	PLBCZF8622021	Various	37 - 39	140 (1)		31.7		34		107.1							31.4		99.1
SECCW	PLBCZF8632021	Various	41 - 45	128 (1)		20.1		23.2		115.1							22.1		110.1
SECCW	PLFPZF1082020	Various	45 - 49	105 (1)		32.1	ab	32.4	ab	100.7							31	ab	96.5
SECCW	PLSOZF6742021	Various	39 - 39	113 (1)		34.9	b	35.6	ab	102.2							37.1	a	106.6
SECCW	PLSYZF6682021	Various	37 - 39	78 (1)		28.3		29.1		102.9							30.1		106.4
SECCW	PLSYZF6692021	Various	47 - 51	74 (1)		29.5	a	29.9	a	101.3							30.8	a	104.5
SECCW	PLSYZF6702021	Various	37 - 37	81 (1)		32.2	b	32.4	a	100.5							32.4	a	100.5
SECCW	PLSYZF6712021	Various	47 - 51	79 (1)		30.8	a	31.7	a	103.1							31.8	a	103.3
SECCS	LTAKZF6662021	Various	51 - 51	128 (1)		21.8	a	23.1	a	105.7							21.8	a	99.7
Mean TGW following A12916B applied at 1.5 L/ha across 12 trials – winter rye					Mean	30.0		105.0		-		-		-					
					Min-max	20.1-34.9		100.5-115.1		-		-		-					
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 4 trials – winter rye					Mean	32.1		106.5		106.3		-		-					
					Min-max	28.9-34.8		102-115		103-116		-		-					
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – winter rye					Mean	31.2		108.0		-		108.3		-					
					Min-max	28.9-33.2		104-115		-		103-117		-					
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 8 trials – winter rye					Mean	30.0		104.1		-		-		103.4					
					Min-max	20.1-34.9		100.5-115.1		-		-		96.5-110.1					
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 1 trial – spring rye					Mean	21.8		105.7		-		-		99.7					
					Min-max	-		-		-		-		-					

Table 3.2-78: Grain HLW data on winter and spring rye taken from 13 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
SECCW	PLSOZF1162018	PUCCRE, RHYNSE	23 - 28	108 (1)		71.6		71.4		100.0	71.6		100.0						
SECCW	PLSYZF7622019	PUCCRE	39 - 45	62 (1)		69.6		70.2		101.0	71.1		102.0	69.8		100.0			
SECCW	PLSYZF7642019	ERYSGR, PUCCRE	43 - 49	82 (1)		67.9	c	68.6	b	101.0	69.1	ab	102.0	68.6	b	101.0			
SECCW	PLSYZF7652019	PUCCRE	49 - 51	69 (1)		70.9		74.8		106.0	74.6		105.0	74.2		105.0			
SECCW	PLBCZF8622021	Various	37 - 39	140 (1)		72		72.4		100.6							72		100
SECCW	PLBCZF8632021	Various	41 - 45	128 (1)		71.5		72.5		101.4							72.2		101
SECCW	PLFPZF1082020	Various	45 - 49	92 (1)		74.1	a	74.2	a	100.1							74.2	a	100.2
SECCW	PLSOZF6742021	Various	39 - 39	111 (1)		71.2	a	71.3	a	100.1							71.4	a	100.2
SECCW	PLSYZF6682021	Various	37 - 39	78 (1)		71.2		71.8		100.8							73.1		102.7
SECCW	PLSYZF6692021	Various	47 - 51	74 (1)		73.3	b	75	a	102.3							73.8	ab	100.7
SECCW	PLSYZF6702021	Various	37 - 37	81 (1)		73.5	a	73.5	a	100							73.5	a	100.1
SECCW	PLSYZF6712021	Various	47 - 51	79 (1)		72.9	a	72.8	a	99.8							72.4	a	99.3
SECCS	LTAKZF6662021	Various	51 - 51	64 (1)		62.2	a	63.2	a	101.6							62.6	a	100.6
Mean HLW following A12916B applied at 1.5 L/ha across 12 trials – winter rye					Mean	71.6		101.1			-			-			-		
					Min-max	67.9-74.1		99.8-106			-			-			-		
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 4 trials – winter rye					Mean	70.0		102.0			102.3			-			-		
					Min-max	67.9-71.6		100-106			100-105			-			-		
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – winter rye					Mean	69.5		102.7			-			102.0			-		
					Min-max	67.9-70.9		101-106			-			100-105			-		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 8 trials – winter rye					Mean	72.5		100.6			-			-			100.5		
					Min-max	71.2-74.1		99.8-102.3			-			-			99.3-102.7		
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 1 trial – spring rye					Mean	62.2		101.6			-			-			100.6		
					Min-max	-		-			-			-			-		

Table 3.2-79: Grain protein content data on winter and spring rye taken from 13 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 150-300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500			A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000			FANDANGO 200 EC 1.5 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 150+150		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated	<i>Mean</i>		% untreated			
SECCW	PLSOZF1162018	PUCCRE, RHYNSE	23 - 28	108 (1)		8.7		8.5		98.0	8.7		100.0						
SECCW	PLSYZF7622019	PUCCRE	39 - 45	131 (1)		9.5		9.4		99.0	9.3		98.0	9.3		98.0			
SECCW	PLSYZF7642019	ERYSGR, PUCCRE	43 - 49	112 (1)		9.3	b	9.4	ab	102.0	9.4	ab	101.0	9.4	a	102.0			
SECCW	PLSYZF7652019	PUCCRE	49 - 51	99 (1)		9.3		10.1		109.0	10.2		110.0	10.3		111.0			
SECCW	PLBCZF8622021	Various	37 - 39	140 (1)		8.7		8.4		96.6							8.2		94.3
SECCW	PLBCZF8632021	Various	41 - 45	128 (1)		10.6		11.4		107.5							11.2		105.7
SECCW	PLFPZF1082020	Various	45 - 49	113 (1)		9.3		9.4		101.1							9.4		101.1
SECCW	PLSOZF742021	Various	39 - 39	108 (1)		8.4	a	8.4	a	100.6							8.5	a	101.5
SECCW	PLSYZF6682021	Various	37 - 39	141 (1)		10.7		10.9		101.9							10.8		100.9
SECCW	PLSYZF6692021	Various	47 - 51	138 (1)		10.8	a	10.9	a	100.5							10.8	a	99.3
SECCW	PLSYZF702021	Various	37 - 37	81 (1)		9.4	a	9.5	a	101.6							9.6	a	101.9
SECCW	PLSYZF6712021	Various	47 - 51	148 (1)		10.3	a	10.3	a	100							10.2	a	99
SECCS	LTAKZF6662021	Various	51 - 51	64 (1)		14.7	a	14.6	a	99.2							14.7	a	100
Mean Grain protein following A12916B applied at 1.5 L/ha across 12 trials – winter rye					Mean	9.6		101.5		-			-			-			
					Min-max	8.4-10.8		96.6-109		-			-			-			
Direct comparison of A12916B to A14111B applied at 1.25 L/ha across 4 trials – winter rye					Mean	9.2		102.0		102.3			-			-			
					Min-max	8.7-9.5		98-109		98-110			-			-			
Direct comparison of A12916B to A14111B applied at 2.5 L/ha across 3 trials – winter rye					Mean	9.4		103.3		-			103.7			-			
					Min-max	9.3-9.5		99-109		-			98-111			-			
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 8 trials – winter rye					Mean	9.8		101.2		-			-			-			100.5
					Min-max	8.4-10.8		96.6-107.5		-			-			-			94.3-105.7
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.5 l/ha across 1 trial – spring rye					Mean	14.7		99.2		-			-			-			100
					Min-max	-		-		-			-			-			-

On some of **winter rye** trials, A12916B applied at the proposed label rate of 1.5 L product/ha produced mainly slight increases in HLW, TGW and protein content of the grain, compared to the untreated control.

Any effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in 4 trials and at the maximum label rate of 2.5 L product/ha in 3 trials or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha in 8 trials.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

On one **spring rye** trial, A12916B applied at the proposed label rate of 1.5 L product/ha produced slight increases in HLW and TGW of the grain, compared to the untreated control. The protein content was not affected.

Any effects on HLW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were generally comparable to those produced by the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha. The TGW (+5.7%) produced by A12916B at the label rate of 1.5 L product/ha was numerically but not statistically higher compared to that produced by the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha (-0.3%).

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Yield quality on rye efficacy trials: Overall conclusion from Maritime and North-East EPPO climatic zones

A total of 24 trials carried out in 2018, 2019, 2020 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on rye also generated data on comparing effects on grain quality (TGW, HLW and protein content). Out of these, 23 trials were carried out on winter rye and 1 was carried out on spring rye.

Of these 24 trials, 11 were carried out in the Maritime climatic zone (Germany) and 13 were carried out in the North-east climatic zone (Poland).

Single applications of the treatments were made when crop growth stages ranged from 23 to 59 (BBCH) across trials.

An overall summary of effects on grain quality parameters of A12916B, compared to those of the standard reference product, across these 24 trials is given in Table 3.2-.

Table 3.2-80: Effects on grain quality of A12916B across efficacy trials on winter and spring rye

	EPPO climatic zone	Crop	No. of trials		Mean grain quality data (as % of untreated)											
					Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*			
						1.5 LPR/HA		1.25 LPR/HA	2.5 LPR/HA			1.5 LPR/HA				
TGW (g)	Maritime	Winter rye	9 of 9	Mean	29.4	100.6	1 trial =	-	-	-	-	-	-			
				Min-max	21.4-36	95.6-109	1 trial > 7 trials n.d.	-		-		-				
			5 of 9	Mean	30.8	102.0	-	100.0	2 trials = 3 trials n.d.	-	-	-	-			
				Min-max	21.4-36	98-109		92-106		-		-				
			3 of 9	Mean	32.4	102.3	-	-	-	103.0	1 trial = 2 trials n.d.	-	-			
				Min-max	30.1-36	98-109		-		98-107		-				
			4 of 9	Mean	27.5	98.9	-	-	-	-	-	100.2	4 trials n.d.			
				Min-max	26.4-28.3	95.6-104.2		-		-		97.3-106.1				
	North-east	Winter rye	12 of 12	Mean	30.0	105.0	4 trials = 2 trials > 6 trials n.d.	-	-	-	-	-	-			
				Min-max	20.1-34.9	100.5-115.1		-		-		-				
			4 of 12	Mean	32.1	106.5	-	106.3	1 trial = 3 trials n.d.	-	-	-	-			
				Min-max	28.9-34.8	102-115		103-116		-		-				
			3 of 12	Mean	31.2	108.0	-	-	-	108.3	1 trial = 2 trials n.d.	-	-			
				Min-max	28.9-33.2	104-115		-		103-117		-				
			8 of 12	Mean	30.0	104.1	-	-	-	-	-	103.4	5 trials = 3 trials n.d.			
				Min-max	20.1-34.9	100.5-115.1		-		-		96.5-110.1				
			Spring rye	1 of 1	Mean	21.8	105.7	1 trial =	-	-	-	-	99.7	1 trial =		
					Min-max	-	-		-		-		-			
			HLW (kg/hL)	Maritime	Winter rye	11 of 11	Mean	68.1	100.2	10 trials = 1 trial n.d.	-	-	-	-	-	-
							Min-max	58.8-74.8	99-103.3		-		-		-	
5 of 11	Mean	72.1				99.6	-	98.8	5 trials =	-	-	-	-			
	Min-max	68.4-74.8				99-101		98-100		-		-				
3 of 11	Mean	71.6				99.7	-	-	-	99.7	3 trials =	-	-			
	Min-max	68.4-74.8				99-101		-		99-100		-				
6 of 11	Mean	64.7				100.7	-	-	-	-	-	101.0	5 trials = 1 trial n.d.			
	Min-max	58.8-69.7				99.1-103.3		-		-		97.4-105.5				
North-east	Winter rye	12 of 12		Mean	71.6	101.1	4 trials = 2 trials > 6 trials n.d.	-	-	-	-	-	-			
				Min-max	67.9-74.1	99.8-106		-		-		-				
		4 of 12		Mean	70.0	102.0	-	102.3	1 trial = 3 trials n.d.	-	-	-	-			
				Min-max	67.9-71.6	100-106		100-105		-		-				
		3 of 12		Mean	69.5	102.7	-	-	-	102.0	1 trial = 2 trials n.d.	-	-			
				Min-max	67.9-70.9	101-106		-		100-105		-				
		8 of 12		Mean	72.5	100.6	-	-	-	-	-	100.5	6 trials = 2 trials n.d.			
				Min-max	71.2-74.1	99.8-102.3		-		-		99.3-102.7				
		Spring		1 of 1	Mean	62.2	101.6	1 trial =	-	-	-	-	100.6	1 trial =		
					Min-max	-	-		-		-		-			

		rye		Min-max	-	-		-		-		-	
Protein content (%)	Maritime	Winter rye	11 of 11	Mean	9.3	101.9	1 trial =	-	-	-	-	-	-
				Min-max	7.8-11.8	97-108	10 trials n.d.	-	-	-	-	-	-
			5 of 11	Mean	9.9	101.4	-	102.4	1 trial =	-	-	-	-
				Min-max	7.8-11.8	97-108	-	97-110	4 trials n.d.	-	-	-	-
			3 of 11	Mean	10.1	98.7	-	-	-	100.7	1 trial =	-	-
				Min-max	8.7-11.8	97-101	-	-	-	99-102	2 trials n.d.	-	-
	North-east	Winter rye	6 of 11	Mean	8.9	102.3	-	-	-	-	-	102.0	6 trials n.d.
				Min-max	7.9-9.7	98.8-107.1	-	-	-	-	-	99.5-104.7	-
			12 of 12	Mean	9.6	101.5	5 trials =	-	-	-	-	-	-
				Min-max	8.4-10.8	96.6-109	7 trials n.d.	-	-	-	-	-	-
			4 of 12	Mean	9.2	102.0	-	102.3	1 trial =	-	-	-	-
				Min-max	8.7-9.5	98-109	-	98-110	3 trials n.d.	-	-	-	-
		Spring rye	3 of 12	Mean	9.4	103.3	-	-	-	103.7	1 trial =	-	-
				Min-max	9.3-9.5	99-109	-	-	-	98-111	2 trials n.d.	-	-
			8 of 12	Mean	9.8	101.2	-	-	-	-	-	100.5	4 trials =
				Min-max	8.4-10.8	96.6-107.5	-	-	-	-	-	94.3-105.7	4 trials n.d.
			1 of 1	Mean	14.7	99.2	1 trial =	-	-	-	-	100	1 trial =
				Min-max	-	-	-	-	-	-	-	-	-

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level; n.d. – not defined.

Data generated on efficacy trials carried out across all EPPO climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha in some cases increased grain quality as a direct function of efficacy against target diseases on rye and the loss of grain quality due to disease in the untreated control.

Any increases in quality of the grain produced by A12916B were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or a lower rate or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on winter and spring rye.

Conclusion to “Yield and yield parameters from efficacy trials in the presence of challenging pest populations” for rye

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals), PP 1/181 (Conduct and reporting of efficacy evaluation trials, including good experimental practice), PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

The applicant presented yield results from 24 efficacy trials with a single application. An average grain yield increase of 12.1% in rye (NE zone) could be achieved by applying the fungicide. There was also increase in green leaf area. In addition, there was no adverse effect on mean hectolitre weight, mean thousand weight and mean protein content in the rye trials.

It can be concluded to accept the yield data of efficacy trials provided by the applicant to demonstrate the efficacy of the applied plant protection product in rye.

3.2.3.6 Efficacy against target foliar diseases in oats

3.2.3.6.1 Crown rust (*Puccinia coronata*: PUCCCO)

Syngenta comment	New data from 2021 are provided for the purpose of this National Addendum.
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Efficacy data for Crown rust (PUCCCO) in oats are presented from 2 efficacy trials in the North-east climatic zone and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2021 in Poland on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when the crop growth stages ranged from 41 to 49 (BBCH).

The standard reference product used for comparison with A12916B in these trials was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 L product/ha.

Table 3.2-81: Efficacy against PUCCCO on oats taken from 2 trials in the North-east climatic zone, Poland

Pest: <i>Puccinia coronata</i> Application volume: 300 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			FANDANGO 200 EC 1.25 LPR/HA PROTHIOCONAZOLE + FLUOXASTROBIN 125+125		
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.			% sev.	% eff.	% sev.	% eff.		
AVESP	PLSYZF6602021	11-Jun-21	-	45 - 49	09-Jul-21	73 - 75	28	LEAF 2		17.1	a	2.9	b	84.1	2.2	b	87.6
AVESP	PLSYZF6622021	17-Jun-21	-	41 - 43	15-Jul-21	75 - 77	28	LEAF 1		43.4	a	9.2	b	77.9	6.6	bc	84.1
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 L/ha across 2 trials – spring oats									Mean	30.3		81.0			85.9		
									Min-max	17.1-43.4		77.9-84.1			84.1-87.6		

By the summarised assessment (28 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control was moderate (17.1-43.4%) in these trials. This represents a moderate test of the efficacy of the treatments.

In these trials, a single application of A12916B at the proposed label rate of 1.5 L product/ha gave a mean level of control of 81.0%.

The efficacy of A12916B applied at the label rate of 1.5 L product/ha was slightly lower than that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 L product/ha, however the difference was not statistically significant.

Overall conclusion

Data generated across trials carried out in Poland demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of PUCCCO on spring oats.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was not statistically significantly different to that of the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

It is acknowledged that the data set for justification of A12916B performance against Crown rust (PUCCCO) on spring oats does not fully meet national data requirements, however, it should be taken into consideration that data generated in trials carried out in wheat (as summarised in Sections **Błąd! Nie można odnaleźć źródła odwołania.** and 3.2.3.1.3), triticale (as summarized in Section 3.2.3.3.2), barley (as summarised in Section 3.2.3.4.3) and rye (as summarised in Section 3.2.3.5.2) show that a single application of A12916B at the proposed label rate of 1.5 L product/ha gives consistently effective control of other species of rust (*Puccinia* spp.) affecting cereals. Based on similarities between pathogen species, disease development patterns and pressure, crop physiology and agronomic practices between these crops and oats, data presented on control of different species of rust on the other cereal crops provide further supportive evidence of the efficacy of A12916B against PUCCCO on oats.

Based on the presented consideration and new data, it is therefore assumed that claim for control of Crown rust (PUCCCO) in spring oats by A12916B applied at the proposed label rate of 1.5 L product/ha is supported in Poland.

Conclusion to *Puccinia coronata* on oats

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals) PP 1/214 (Principles of acceptable efficacy), PP 1/223 (Introduction to the efficacy evaluation of plant protection products)

The evaluator agrees that *Puccinia coronata* and other *Puccinia* species share similarities in their life cycles, disease symptoms and agricultural impact due to their common genus. However, they differ in their host specificity and the diseases they cause. *Puccinia coronata* is considered a major disease of oats in PL. In this case, given the acceptable efficacy of 81% achieved by the product, a conditional registration is acceptable. Further data are required for use against *Puccinia coronata* as part of the post-registration process. This would consist of at least two fully supportive trials with sufficient levels of infestation and disease control.

3.2.3.6.2 Powdery mildew (*Blumeria graminis*: ERYSGR)

Syngenta comment	No new data are provided for the purpose of this National Addendum. Not relevant data from Maritime, Mediterranean and South-east were deleted. The zonal assessment stays valid.
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Efficacy data for Powdery mildew (ERYSGR) in oats are presented from 2 efficacy trials in the Maritime climatic zone and assessed for disease severity (% of infected area, per leaf level) in Table 3.2-. These trials were carried out in 2019 in Germany. Both trials were carried out on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 47-51 to 51-52 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha.

Table 3.2-82: Efficacy against ERYSGR on oats taken from 2 trials in Germany

Pest: <i>Blumeria graminis</i> Application volume: 200 L/ha Assessment Data Type, Unit: PEST SEVERITY, %AREA									Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Appl'n date(s)	Target density at appl'n	Crop GS at appl'n	Assessment date	Crop GS at assessm't	Days after appl'n	Part assessed	% sev.		% sev.	% eff.	% sev.	% eff.	% sev.	% eff.	
AVESP	DEFZZF7452019	27-Jun-19	-	51 - 51	01-Aug-19	83 - 87	35 (1)	LEAF1		22.2 a	8.1 bc	63.0	2.9 cd	87.0	4.7 bd	79.0	
AVESP	DESYZF7462019	11-Jun-19	-	47 - 52	03-Jul-19	71 - 73	22 (1)	LEAF3		52.5 a	31.6 ab	40.0	40.9 ab	22.0	29.4 ab	44.0	
Direct comparison of A12916B to A14111B applied at 1.25 L and 2.5 l/ha across 2 trials									Mean	37.4	51.5		54.5		61.5		
									Min-max	22.2-52.5	40-63		22-87		44-79		

By summarised assessments (22-35 DA-A1), mean disease severity on the highest leaf on which it developed to $\geq 5\%$ in the untreated control ranged from low to high (22.2-52.5%) between trials. This represents up to a moderate test of the efficacy of the treatments.

A single application of A12916B at the proposed label rate of 1.5 L product/ha gave an overall mean level of control of 51.5% (range 40.0-63.0%) across these 2 trials.

The efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was not statistically significantly different to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at the maximum label rate of 2.5 L product/ha on any of the trials.

Overall conclusion

Data generated across trials carried out in Germany demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha gives effective levels of control of ERYSGR on spring oats.

The overall efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha was not statistically significantly different to that of the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at the maximum label rate of 2.5 L product/ha on any of the trials.

It is acknowledged that the data set for justification of A12916B performance against Powdery mildew (ERYSGR) on spring oats does not fully meet national data requirements, however, it should be taken into consideration that data generated in trials carried out in triticale (as summarised in Section 3.2.3.3.3), barley (as summarised in Section 3.2.3.4.5) and rye (as summarised in Section 3.2.3.5.3) show that a single application of A12916B at the proposed label rate of 1.5 L product/ha gives consistently effective control of strains of ERYSGR that occur in these crops. Based on close similarities between pathogen strains, disease development patterns and pressure, crop physiology and agronomic practices between these crops and oats, data presented on control of ERYSGR on 5 trials on triticale, 14 trials on barley and 2 trials on rye provide further supportive evidence of the efficacy of A12916B against this disease on oats.

Based on the presented consideration and new data, it is therefore assumed that claim for control of Powdery mildew (ERYSGR) in spring oats by A12916B applied at the proposed label rate of 1.5 L product/ha is supported in Poland.

Conclusion to *Blumeria graminis* on oats

The two trials conducted in the maritime EPPO zone in 2019 are insufficient according to EPPO Standard PP1/226 (Number of Efficacy Trials).

The evaluator agrees with the applicant that powdery mildew is a fungal disease caused by *Blumeria graminis* on wheat, barley, rye, oats and triticale. These are not subspecies, but specialised forms of the same pathogen, with no morphological differences to distinguish them except by the specific cereal hosts they infect. However, as the national extrapolation table does not cover foliar diseases on oats, a complete data package is required. Given the limited number of trials and the low efficacy of the product, this use cannot be accepted.

3.2.3.6.3 Yield (and relevant quality indicators), from efficacy trials (in the presence of challenging pest populations) - oats

Plant quality

EPPO climatic zone – Maritime

Green leaf area data from 1 efficacy trial in the Maritime climatic zone that generated valid data on target diseases in oats are presented in Table 3.2-. This trial was carried out in 2019 in Germany. The trial was carried out on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on oats.

On the trial, treatment was applied at a single timing made when crop growth stages ranged at 51 (BBCH).

The standard reference product used for comparison with A12916B in the trial was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha.

Table 3.2-83: Plant quality data (% green leaf area) on oats taken from 1 trial that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750	A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500	A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	Mean	Mean
AVESP	DEFZZF7452019	ERYSGR	51	35 (1)		37.5 b	78.8 a	81.2 a	63.8 a

At summarised assessment (35 DA-A1) on 1 efficacy trial, A12916B applied at the proposed label rate of 1.5 L product/ha gave statistically significant increase in green leaf area, compared to the untreated control.

The increase in green leaf area produced by A12916B at the label rate of 1.5 L product/ha was comparable to that produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and was slightly higher than that produced by the maximum label rate of 2.5 L product/ha, although the difference was not statistically significant.

Increase in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

EPPO climatic zone – North-east

Green leaf area data from 2 efficacy trials in the North-east climatic zone that generated valid data on target diseases in oats are presented in Table 3.2-. This trial was carried out in 2021 in Poland. These trials were carried out on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on plant quality resulting from efficacy against target diseases on oats.

On these trials, the treatment was applied at a single timing when crop growth stage ranged from 41 to 49 (BBCH) across trials.

The standard reference product used for comparison with A12916B in these trials was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 L product/ha.

Table 3.2-84: Plant quality data (% green leaf area) on oats taken from 2 trials that generated valid efficacy data on target diseases in Poland

Assessment Data Type, Unit: COLOR - GREEN LEAF AREA, %AREA Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		FANDANGO 200 EC 1.25 LPR/HA PROTHIOCONAZOLE + FLUOXASTROBIN 125+125	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		Mean	
AVESP	PLSYZF6602021	PUCCCO	45 - 49	28 (1)		45	b	60.1	a	62.6	a
AVESP	PLSYZF6622021	PUCCCO	41 - 43	28 (1)		47.5	c	66.3	b	70.1	b
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 L/ha across 2 trials – spring oats					Mean	46.3		63.2		66.4	
					Min-max	45-47.5		60.1-66.3		62.6-70.1	

At summarised assessment (28 DA-A1) on 2 efficacy trials, A12916B applied at the proposed label rate of 1.5 L product/ha gave statistically significant increase in green leaf area, compared to the untreated control.

The increase in green leaf area produced by A12916B at the label rate of 1.5 L product/ha was comparable to that produced by the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha. The differences were not statistically significant.

Increase in green leaf area produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Plant quality on oats efficacy trials: Overall conclusion from Maritime and North-east climatic zones

A total of 3 of the trials carried out in 2019 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases in oats also generated data on green leaf area. All trials were carried out on spring oats.

Of these 3 trials, 1 was carried out in the Maritime climatic zone (Germany) and 2 were carried out in the North-east climatic zone (Poland).

Single applications of the treatments were made when crop growth stages ranged from 41 to 51 (BBCH) across trials.

An overall summary of effects on green leaf area of A12916B, compared to those of the standard reference product, across these 3 trials is given in **Table 3.2-**.

Table 3.2-85: Effects on plant quality of A12916B across efficacy trials on oats

EPO climatic zone	No. of trials		Mean % green leaf area at final assessment timings								
			Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.25 L/HA*
				1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.25 LPR/HA	
Maritime	1 of 1	Mean	37.5	78.8	1 trial >	81.2	1 trial =	63.8	1 trial =	-	-
		Min-max	-	-		-		-		-	
North-east	2 of 2	Mean	46.3	63.2	2 trials >	-	-	-	-	66.4	2 trials =
		Min-max	45-47.5	60.1-66.3		-		-		62.6-70.1	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Data generated on efficacy trials carried out in the Maritime and North-east climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increases green leaf area as a direct function of efficacy against target diseases on oats and adverse effects of the disease in the untreated control.

Increases in green leaf area produced by A12916B were not statistically significantly different to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and a lower rate or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Increases in green leaf area produced by A12916B in these trials can be directly attributed to control of the target diseases in these trials and provide further evidence of the efficacy of A12916B against these diseases on oats.

Crop yield

EPPO climatic zone – Maritime

Crop yield data from 1 efficacy trial in the Maritime climatic zone that generated valid data on target diseases in oats is presented in Table 3.2-. This trial was carried out in 2019 in Germany. The trial was carried out on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in oats.

On this trial, the treatment was applied at a single timing when crop growth stage was 51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha.

Results

On this one trial, A12916B applied at the proposed label rate of 1.5 L product/ha reduced crop yield, compared to the untreated control, however, this reduction was not statistically significant.

Effect on crop yield produced by A12916B at the label rate of 1.5 L product/ha was not statistically significantly different to that produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha and at 2.5 L product/ha.

Table 3.2-86: Crop yield data on oats taken from 1 trial that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
AVESP	DEFZZF7452019	ERYSGR	51 - 51	62 (1)		28.7 a	25.5 a	89.0	23.6 a	82.0	27.0 a	94.0

EPPO climatic zone – North-east

Crop yield data from 2 efficacy trial in the North-east climatic zone that generated valid data on target diseases in oats are presented in Table 3.2-. These trials were carried out in 2021 in Poland on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of yield response resulting from efficacy against target foliar diseases in oats.

On these trials, the treatment was applied at a single timing when crop growth stage ranged from 41 to 49 (BBCH) across trials.

The standard reference product used for comparison with A12916B in these trials was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 L product/ha.

Table 3.2-87: Crop yield data on oats taken from 2 trials that generated valid efficacy data on target diseases in Poland

Assessment Data Type, Unit: YIELD, DT/HA Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	<i>Untreated</i>		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			FANDANGO 200 EC 1.25 LPR/HA PROTHIOCONAZOLE + FLUOXASTROBIN 125+125		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		<i>Mean</i>		<i>Mean</i>		% untreated	<i>Mean</i>		% untreated
AVESP	PLSYZF6602021	PUCCCO	45 - 49	53 (1)		42	b	46.4	a	111.1	46	a	110.2
AVESP	PLSYZF6622021	PUCCCO	41 - 43	51 (1)		48.2	b	56.4	a	118.6	57.4	a	120.7
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 2 trials					Mean	45.1		114.9			115.5		
					Min-max	42-48.2		111.1-118.6			110.2-120.7		

On these trials, A12916B applied at the proposed label rate of 1.5 L product/ha consistently increased crop yield, compared to the untreated control, and on both trials the increases were statistically significant.

Effects on crop yield produced by A12916B at the label rate of 1.5 L product/ha were similar to those of FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha. The differences were statistically not significant in both trials.

Increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Crop yield on oats efficacy trials: Overall conclusion from Maritime and North-east EPPO climatic zones

A total of 3 trials carried out in 2019 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on oats also generated data on crop yield. All trials were carried out on spring oats.

Of these 3 trials, 1 was carried out in the Maritime climatic zone (Germany) and 2 were carried out in the North-east climatic zone (Poland).

Single applications of the treatments were made when crop growth stages ranged from 41 to 51 (BBCH) across trials.

An overall summary of effects on crop yield of A12916B, compared to those of the standard reference product, across these 3 trials is given in Table 3.2-8.

Data generated on efficacy trials carried out in the Maritime and North-east climatic zones demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha increased crop, compared to the untreated control, on 2 of the 3 trials as a direct function of efficacy against target diseases and on these 2 trials the increases were statistically significant.

Any effects in crop yield produced by A12916B were not statistically significantly different to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and at the lower rate or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 L product/ha.

Where occurring, increases in crop yield produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on oats.

Table 3.2-88: Effects on crop yield of A12916B across efficacy trials on oats

EPPO climatic zone	No. of trials		Mean crop yield (as % of untreated)								
			Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.25 L/HA*
				1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.25 LPR/HA	
Maritime	1 of 1	Mean	28.7	89.0	1 trial =	82.0	1 trial =	94.0	1 trial =	-	-
		Min-max	-	-		-		-		-	
North-east	2 of 2	Mean	45.1	114.9	2 trials >	-	-	-	-	115.5	2 trials =
		Min-max	42-48.2	111.1-118.6		-		-		110.2-120.7	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level

Yield quality

EPPO climatic zone – Maritime

Grain quality parameter data from 1 efficacy trial in the Maritime climatic zone that generated valid data on target diseases in oats are presented in Table 3.2- (TGW), Table 3.2- (HLW) and Table 3.2- (protein content). This trial was carried out in 2019 in Germany. The trial was carried out on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in oats.

On this one trial, the treatment was applied at a single timing when crop growth stage was 51 (BBCH).

The standard reference product used for comparison with A12916B in these trials was A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 1.25 L and 2.5 L product/ha.

Results

On this one trial, A12916B applied at the proposed label rate of 1.5 L product/ha and the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 2.5 L product/ha and at 1.25 L product/ha gave only slight decreases on HLW, TGW and protein content of the grain. In all cases the differences were not statistically significant.

Table 3.2-89: TGW data on oats taken from 1 trial that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
AVESP	DEFZZF7452019	ERYSGR	51 - 51	62 (1)		31.9 a	32.0 a	100.0	30.3 a	95.0	31.4 a	99.0

Table 3.2-90: Grain HLW data on oats taken from 1 trial that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
AVESP	DEFZZF7452019	ERYSGR	51 - 51	62 (1)		41.5 a	41.2 a	99.0	40.3 a	97.0	40.2 a	97.0

Table 3.2-91: Grain protein content data on oats taken from 1 trial that generated valid efficacy data on target diseases in Germany

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 200 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated	A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750		A14111B 1.25 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 100 + 500		A14111B 2.5 LPR/HA AZOXYSTROBIN + CHLOROTHALONIL 200 + 1000	
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean	Mean	% untreated	Mean	% untreated	Mean	% untreated
AVESP	DEFZZF7452019	ERYSGR	51 - 51	62 (1)		14.6 a	14.4 a	98.0	14.2 a	97.0	14.5 a	99.0

EPPO climatic zone – North-east

Grain quality parameter data from 2 efficacy trials in the North-east climatic zone that generated valid data on target diseases in oats are presented in Table 3.2- (TGW),

Table 3.2- (HLW) and Table 3.2- (protein content). These trials were carried out in 2021 in Poland. All trials were carried out on spring oats.

The objective was to confirm the performance of A12916B applied at the proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha) in terms of effects on yield quality resulting from efficacy against target foliar diseases in oats.

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 41 to 49 (BBCH).

The standard reference product used for comparison with A12916B in these trials was FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Table 3.2-92: TGW data on oats taken from 2 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: THOUSAND GRAIN WEIGHT, G Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			FANDANGO 200 EC 1.25 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 125+125		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		% untreated	Mean		% untreated
AVESP	PLSYZF6602021	PUCCCO	45 - 49	53 (1)		32.1	b	36.7	a	114.5	36.5	a	113.8
AVESP	PLSYZF6622021	PUCCCO	41 - 43	51 (1)		28	b	33.8	a	120.6	34.1	a	121.5
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 2 trials					Min-max	30.1		117.6			117.7		
					Mean	28-32.1		114.5-120.6			113.8-121.5		

Table 3.2-93: Grain HLW data on oats taken from 2 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: HECTOLITRE WEIGHT, KG/HL Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			FANDANGO 200 EC 1.25 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 125+125		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		% untreated	Mean		% untreated
AVESP	PLSYZF6602021	PUCCCO	45 - 49	53 (1)		44	b	45.4	a	103.3	45.6	a	103.8
AVESP	PLSYZF6622021	PUCCCO	41 - 43	51 (1)		46.6	b	49.4	a	106.1	50.5	a	108.4
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 2 trials					Min-max	45.3		104.7			106.1		
					Mean	44-46.6		103.3-106.1			103.8-108.4		

Table 3.2-94: Grain protein content data on oats taken from 2 trials that generated valid efficacy data on target diseases in the North-east climatic zone

Assessment Data Type, Unit: CONTENT - PROTEIN, % Application volume: 300 L/ha					Product Name Product Rate Active Ingredient(s) gai/ha	Untreated		A12916B 1.5 LPR/HA AZOXYSTROBIN + FOLPET 140 + 750			FANDANGO 200 EC 1.25 l/ha PROTHIOCONAZOLE + FLUOXASTROBIN 125+125		
Crop	Trial reference number	Diseases in trials	Crop GS at appl'n	Days after appl'n		Mean		Mean		% untreated			
AVESP	PLSYZF6602021	PUCCCO	45 - 49	110 (1)		11.8	a	11.8	a	100	11.8	a	100
AVESP	PLSYZF6622021	PUCCCO	41 - 43	97 (1)		11.4	a	11.7	a	103.1	12	a	105
Direct comparison of A12916B to FANDANGO 200 EC applied at 1.25 l/ha across 2 trials					Min-max	11.6		101.6			102.5		
					Mean	11.4-11.8		100-103.1			100-105		

On these trials, A12916B applied at the proposed label rate of 1.5 L product/ha produced significant increase in TGW and HLW and had little or no impact on protein content of the grain, compared to the untreated control.

Any effects on HLW, TGW and protein content of the grain produced by A12916B at the label rate of 1.5 L product/ha were generally comparable to those produced by the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of efficacy of A12916B against target diseases.

Yield quality on oats efficacy trials: Overall conclusion from Maritime and North-East EPPO climatic zones

A total of 3 trials carried out in 2019 and 2021 that generated valid data on the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against target diseases on oats also generated data on comparing effects on grain quality (TGW, HLW and protein content). All trials were carried out on spring oats.

Of these 3 trials, 1 was carried out in the Maritime climatic zone (Germany) and 2 were carried out in the North-east climatic zone (Poland).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 41 to 51 (BBCH).

An overall summary of effects on grain quality parameters of A12916B, compared to those of the standard reference product, across these 3 trials is given in Table 3.2-.

Table 3.2-95: Effects on grain quality of A12916B across efficacy trials on oats

	EPPO climatic zone	No. of trials		Mean grain quality data (as % of untreated)								
				Untreated	A12916B	A12916B compared to Untreated *	A14111B	A12916B compared to A14111B applied at 1.25 L/HA*	A14111B	A12916B compared to A14111B applied at 2.5 L/HA*	FANDANGO 200 EC	A12916B compared to FANDANGO 200 EC applied at 1.5 L/HA*
					1.5 LPR/HA		1.25 LPR/HA		2.5 LPR/HA		1.5 LPR/HA	
TGW (g)	Maritime	1 of 1	Mean	31.9	100.0	1 trial =	95.0	1 trial =	99.0	1 trial =	-	-
			Min-max	-	-		-		-		-	
	North-east	2 of 2	Mean	30.1	117.6	2 trials >	-	-	-	-	117.7	2 trials =
			Min-max	28-32.1	114.5-120.6		-		-		113.8-121.5	
HLW (kg/hL)	Maritime	1 of 1	Mean	41.5	99.0	1 trial =	97.0	1 trial =	97.0	1 trial =	-	-
			Min-max	-	-		-		-		-	
	North-east	2 of 2	Mean	45.3	104.7	2 trials >	-	-	-	-	106.1	2 trials =
			Min-max	44-46.6	103.3-106.1		-		-		103.8-108.4	
Protein content (%)	Maritime	1 of 1	Mean	14.6	98.0	1 trial =	97.0	1 trial =	99.0	1 trial =	-	-
			Min-max	-	-		-		-		-	
	North-east	2 of 2	Mean	11.6	101.6	2 trials =	-	-	-	-	102.5	2 trials =
			Min-max	11.4-11.8	100-103.1		-		-		100-105	

* no. of trials where >, < or =, based on statistically significant differences at 95% confidence level; n.d. – not defined.

Data generated on efficacy trials carried out across all Maritime and North-east climatic zones clearly demonstrate that A12916B applied at the proposed label rate of 1.5 L product/ha in some cases increased grain quality as a direct function of efficacy against target diseases on oats and the loss of grain quality due to disease in the untreated control.

Any increases in quality of the grain produced by A12916B were generally comparable to those produced by the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the label rate and/or a lower rate or FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Where occurring, increases in quality of the grain produced by A12916B can be directly attributed to control of the target diseases that occurred in these trials and provide further evidence of the efficacy of A12916B against target diseases on oats.

Conclusion to “Yield and yield parameters from efficacy trials in the presence of challenging pest populations” for oats

The presented data correspond with the requirements of the EPPO Standards PP 1/26 (Foliar and ear diseases on cereals), PP 1/181 (Conduct and reporting of efficacy evaluation trials, including good experimental practice), PP 1/214 (Principles of acceptable efficacy) and PP 1/223 (Introduction to the efficacy evaluation of plant protection products).

The applicant presented yield results from one trial conducted in the maritime zone and two trials conducted in the north-eastern zone. In the north-eastern zone, an average grain yield increase of 14.9% was achieved by application of the fungicide. In the maritime zone, A12916B reduced yield compared to the untreated control (-11%).

There was also a significant increase in green leaf area in the maritime and northeast zones. There was no adverse effect on mean hectolitre weight, mean thousand weight and mean protein content in the oats trials in the north-east zone. In the maritime zone, A12916B and the standard reference product A14111B applied at 2.5 l/ha and 1.25 l/ha, respectively, gave only slight decreases in grain HLW, TGW and protein content.

It can be concluded to accept the yield data of efficacy trials provided by the applicant to demonstrate the efficacy of the applied plant protection product in oats.

3.2.3.7 Efficacy against target foliar diseases in forage grasses for seed production

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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No data are summarised in support of demonstrating the efficacy of A12916B against target diseases (PUCCSP, RHYNSP) in forage grasses for seed production in France and Portugal, where these are minor uses.

However, *Puccinia* and *Rhynchosporium* species that occur on forage grass species are the same or very similar to species and strains that occur on various cereal crops.

On this basis, data generated on control of PUCCSP on wheat (as summarised in Sections **Błąd! Nie można odnaleźć źródła odwołania.** and 3.2.3.1.3), triticale (as summarised in Section 3.2.3.3.2), barley (as summarised in Section 3.2.3.4.3), rye (as summarised in Section 3.2.3.5.2) and oats (as summarised in Section 3.2.3.6.1) are considered to provide supportive evidence of the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against PUCCSP on forage grasses.

Similarly, data generated on control of RHYNSE on barley (as summarised in Section 3.2.3.4.1) and rye (as summarised in Section 3.2.3.5.1) are considered to provide supportive evidence of the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against RHYNSP on forage grasses.

It is reasonable to consider that A12916B gives similarly effective control of PUCCSP and RHYNSP on grasses to that demonstrated across trials carried out on cereals and therefore label claims for control of these diseases in forage grass crops for seed production by A12916B applied at the proposed rate of 1.5 L product/ha are supported for France and Portugal.

3.2.3.8 Efficacy against target foliar diseases in grasses (ornamental and for seed production)

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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No data are summarised in support of demonstrating the efficacy of A12916B against target diseases (PUCCSP, SEPTSP) in grasses (ornamental and for seed production) in Poland, where these are minor uses.

However, *Puccinia* and *Septoria* species that occur on grass species are the same or very similar to species and strains that occur on various cereal crops.

On this basis, data generated on control of PUCCSP on wheat (as summarised in Sections **Błąd! Nie można odnaleźć źródła odwołania.** and 3.2.3.1.3), triticale (as summarised in Section 3.2.3.3.2), barley (as summarised in Section 3.2.3.4.3), rye (as summarised in Section 3.2.3.5.2) and oats (as summarised in Section 3.2.3.6.1) are considered to provide supportive evidence of the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against PUCCSP on grasses.

Similarly, data generated on control of SEPTTR on wheat (as summarised in Section 3.2.3.1.1) and triticale (as summarised in Section 3.2.3.3.1) are considered to provide supportive evidence of the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against SEPTSP on grasses.

It is reasonable to consider that A12916B gives similarly effective control of PUCCSP and SEPTSP on grasses to that demonstrated across trials carried out on cereals and therefore label claims for control of these diseases in grasses (ornamental and for seed production) by A12916B applied at the proposed rate

of 1.5 L product/ha are supported for Poland.

3.2.3.9 Efficacy against target diseases in *Miscanthus* (energy crop)

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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No data are summarised in support of demonstrating the efficacy of A12916B against target diseases (PUCCSP, SEPTSP) in *Miscanthus* in Poland, where this is a minor crop.

However, *Puccinia* and *Septoria* species that occur on *Miscanthus* are the same or very similar to species and strains that occur on various cereal crops.

On this basis, data generated on control of PUCCSP on wheat (as summarised in Sections **Błąd! Nie można odnaleźć źródła odwołania.** and 3.2.3.1.3), triticale (as summarised in Section 3.2.3.3.2), barley (as summarised in Section 3.2.3.4.3), rye (as summarised in Section 3.2.3.5.2) and oats (as summarised in Section 3.2.3.6.1) are considered to provide supportive evidence of the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against PUCCSP on *Miscanthus*.

Similarly, data generated on control of SEPTTR on wheat (as summarised in Section 3.2.3.1.1) and triticale (as summarised in Section 3.2.3.3.1) are considered to provide supportive evidence of the efficacy of A12916B applied at the proposed label rate of 1.5 L product/ha against SEPTSP on *Miscanthus*.

It is reasonable to consider that A12916B gives similarly effective control of PUCCSP and SEPTSP on *Miscanthus* to that demonstrated across trials carried out on cereals and therefore label claims for control of these diseases in *Miscanthus* by A12916B applied at the proposed rate of 1.5 L product/ha are supported for Poland.

These uses have not been evaluated as part of this application (minor use request) because consideration under Article 51 is based on a separate application.

3.2.3.10 Summary and conclusions on efficacy

For the purpose of this National Addendum, a total of 110 trials have been presented in support of label claims for control of target foliar diseases in cereals (wheat, triticale, barley, rye, oats) by A12916B applied at the proposed label rate of 1.5 L product/ha under wide ranging conditions and disease pressures across countries that are considered acceptable for plant protection product performance demonstration in Poland according to national requirements, i.e. trials were conducted in Germany, Czech Republic (Maritime EPPO zone), Poland, Lithuania, Latvia, Estonia (North-east EPPO zone) and Slovakia (South-east EPPO zone).

Across these trials, A12916B applied at the proposed label rate of 1.5 L product/ha gave consistently good levels of control of leaf spots and blotches (*Zymoseptoria tritici*, *Rhynchosporium secalis*, *Pyrenophora teres*, *Ramularia collo-cygni*), rusts (*Puccinia striiformis*, *Puccinia recondita*, *Puccinia hordei*) and powdery mildew (*Blumeria graminis*).

The efficacy of A12916B applied at this rate was not consistently different to that of a standard reference product.

All label claims for control of these diseases on cereals (wheat, durum, spelt, triticale, barley, rye, oats) and minor crops (grasses and *Miscanthus*) are therefore considered supported in Poland.

3.3 Information on the occurrence or possible occurrence of the development of resistance (KCP 6.3)

For information on Information on the occurrence or possible occurrence of the development of resistance please refer to Biological Assessment Dossier, Section 3: Efficacy Data and Information, Core assessment (ref. Document ID: VV-846678, June 2020).

No data are considered needed for this submission as A12916B Information on the occurrence or possible occurrence of the development of resistance was fully addressed in Core submission.

3.4 Adverse effects on treated crops (KCP 6.4)

Syngenta comment	<p>No new data from trials where target diseases failed to develop or developed to low levels are presented in this section.</p> <p>However, this section is supplemented with data from new efficacy trials on triticale, barley, rye and oats from 2020-2023 that were presented in this National Addendum.</p> <p>If available, new text and data are highlighted in green.</p>
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Information on trials submitted (3.4: Adverse effects on treated crops)

Table 3.4-1: Presentation of trials (selectivity trials, transformation trials)

Crop*	Country	Type of trial**	Number of trials (number of valid trials)				Years	GEP, non-GEP, official***	Comments (any other relevant information)
			Mar. zone	Med. zone	N-E zone	S-E zone			
Winter wheat	DK	S + Y + Q	1 (1)	-	-	-	2018	GEP	Low levels of target diseases and a non-target disease
	FR	S + Y + Q	1 (1)	-	-	-	2019	GEP	No disease
		S + Y + T + P	1 (1)	-	-	-	2019	GEP	
		S + Y + Q + T + P	-	1 (1)	-	-	2019	GEP	
	DE	S + Y + Q	3 (3)	-	-	-	2018-2019	GEP	No disease (1), low levels of a target disease and also a non-target disease (2)
	LV	S	-	-	1 (1)	-	2019	GEP	Non-target diseases
		S	-	-	1 (1)	-	2019	GEP	Low levels of target diseases and also non-target diseases
	SK	S + Y + Q	-	-	-	1 (1)	2019	GEP	Low levels of target diseases
	ES	S	-	1 (1)	-	-	2018	GEP	Non-target disease
	UK	S	1 (1)	-	-	-	2019	GEP	Low levels of a target disease and also a non-target disease
		S + Y + Q	1 (1)	-	-	-	2019	GEP	Low levels of a target disease
TOTAL	-	-	8 (8)	2 (2)	2 (2)	1 (1)	2018-2019	-	-
Durum wheat	FR	S + Y + Q	-	1 (1)	-	-	2019	GEP	No disease
	EL	S	-	1 (1)	-	-	2019	GEP	Non-target disease
	IT	S + Y + Q	-	1 (1)	-	-	2019	GEP	No disease
TOTAL	-	-	-	3 (3)	-	-	2019	-	-
Spring	LV	S	-	-	1 (1)	-	2018	GEP	Non-target diseases

Crop*	Country	Type of trial**	Number of trials (number of valid trials)				Years	GEP, non-GEP, official***	Comments (any other relevant information)
			Mar. zone	Med. zone	N-E zone	S-E zone			
wheat	LT	S	-	-	3 (3)	-	2019	GEP	Low levels of target diseases and also non-target diseases
		S + Y + Q	-	-	1 (1)	-	2019	GEP	Low levels of target and non-target diseases
	ES	S + Y + Q	-	1 (1)	-	-	2019	GEP	Low levels of a target disease
TOTAL	-	-	-	1 (1)	5 (5)	-	2018-2019	-	-
Winter triticale	FR	S + Y	1 (1)	-	-	-	2019	GEP	Low levels of a target disease
TOTAL	-	-	1 (1)	-	-	-	2019	-	-
Winter barley	DE	S + Y + Q	1 (1)	-	-	-	2018	GEP	Low levels of target diseases
	PL	S + Y + Q	-	-	1 (1)	-	2019	GEP	Low levels of a target disease
	ES	S + Y + Q	-	1 (1)	-	-	2019	GEP	No disease
	UK	S + Y + Q	2 (2)	-	-	-	2018-2019	GEP	No disease (1), low levels of target diseases (1)
TOTAL	-	-	3 (3)	1 (1)	1 (1)	-	2018-2019	-	-
Spring Barley	IE	S + Y + Q	1 (1)	-	-	-	2018	GEP	Low levels of a target disease
	PL	S + Y + Q	-	-	1 (1)	-	2019	GEP	Low levels of target diseases
TOTAL	-	-	1 (1)	-	1 (1)	-	2018-2019	-	-

Crop*	Country	Type of trial**	Number of trials (number of valid trials)				Years	GEP, non-GEP, official***	Comments (any other relevant information)
			Mar. zone	Med. zone	N-E zone	S-E zone			
Winter rye	HR	S + Y + Q	-	-	-	1 (1)	2019	GEP	Low levels of a target disease
	DE	S + Y + Q	1 (1)	-	-	-	2019	GEP	No disease
	PL	S + Y + Q	-	-	1 (1)	-	2018	GEP	Low levels of a target disease
TOTAL	-	-	1 (1)	-	1 (1)	1 (1)	2018-2019	-	-
Winter oats	FR	S + Y + Q	-	1 (1)	-	-	2019	GEP	No disease
	UK	S + Y + Q	1 (1)	-	-	-	2019	GEP	No disease
TOTAL	-	-	1 (1)	1 (1)	-	-	2019	-	-
Spring oats	FR	S + Y + Q	1 (1)	-	-	-	2019	GEP	No disease
	LT	S + Y + Q	-	-	2 (2)	-	2019	GEP	Low levels of a target and a non-target disease
TOTAL	-	-	1 (1)	-	2 (2)	-	2019	-	-

* According to the GAP table

** S = selectivity trial, Y = trial with yield assessment, Q = trial with quality assessment, T = trial on the basis of the study of impact on transformation process (TP: Physical transformation, TF: transformation involving microbial fermentation), P = trial with assessment of impact on propagation

*** Official: carried out by a national official organisation

Table 3.4-2: Presentation of reference standards used in trials (selectivity trials, transformation trials)

Crop(s)	Reference standard	Country(ies) where the product is registered ⁽¹⁾	Authorization number (trade name)	Active substance(s)	Formulation		Registered application rate ⁽³⁾	Application rate in trials (per treatment)	Remark ⁽⁴⁾
					Type ⁽²⁾	Concentration of a.s.			
Cereals	A14111B*	DE	005748-00 (Amistar Opti)	azoxystrobin + chlorothalonil	SC	80 + 400 g/L	2.5 L/ha	1.25 L/ha; 1.85 L/ha; 2.5 L/ha	
		DK, IT, LT	n/a				n/a	1.25 L/ha; 2.5 L/ha	
		FR, LV, SK, HR	2100179, 0325, 10-02-1150, UP/I-320-20/08-01/349 (Amistar Opti)				2.5 L/ha	1.25 L/ha; 2.5 L/ha	
		UK	18157 (Curator)				1.8 L/ha; 2.5 L/ha	1.25 L/ha; 2.5 L/ha	
		IE	05068 (Amistar Opti)				1.8 L/ha; 2.5 L/ha	1.25 L/ha	
		ES, EL	25587, 60265 (Ortiva Opti)				n/a	1.25 L/ha; 2.5 L/ha	
		PL	R-20/2011 (Amistar Opti)				n/a	1.25 L/ha; 2.5 L/ha	

(1) only on use(s) applied for (with the test product)

(2) e.g. WP (wetable powder), EC (emulsifiable concentrate), etc.

(3) Dose / dose range authorized in the country

(4) Other relevant information (e.g. uses, number of applications, spray volume, method of application...)

* Following non-inclusion of chlorothalonil in Annex I, product is either already withdrawn or in the process of being withdrawn in countries where the product was previously or currently registered.

3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

Syngenta comment	No new data from trials where target diseases failed to develop or developed to low levels are presented in this section. However, this section is supplemented with data from new efficacy trials on triticale, barley, rye and oats from 2020-2023 that were presented in this National Addendum.
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Assessments for phytotoxicity and other adverse effects were made on all 222 trials that generated efficacy data in support of the authorisation or label extension for the use of A12916B against target fungal diseases on cereals in 2018 and 2019 and a further 36 trials carried out in 2018 and 2019 that generated data only on non-target fungal diseases or in which target diseases failed to develop or only developed to low levels (<5% severity) but which are summarised in support of demonstrating crop safety.

Additionally, assessments for phytotoxicity and other adverse effects were made on two trials that generated samples of grain for processing tests.

A summary of numbers of trials having generated valid efficacy data in support of the use of A12916B against target fungal diseases on cereals is given in **Błąd! Nie można odnaleźć źródła odwołania.** (please see BAD, ref. VV-846678).

For materials and methods of the efficacy trials refer to Section 3.2.3 (KCP 6.2). For materials and methods of the trials that generated samples of grain for processing tests refer to Section 3.4.4 (KCP 6.4.4).

Materials and methods of the trials in which only non-target diseases occurred or target diseases either failed to develop or developed to low levels are summarised here.

A summary of numbers and locations of all trials with non-valid data which are used to demonstrate crop safety on cereals is given in Table 3.4-3.

Table 3.4-3: Summary of total numbers of trials with non-valid data used to demonstrate crop safety of A11916B on cereals by EPPO climatic zone

Crop	EPPO climatic zone	Number of trials		
		Year		Total
		2018	2019	
Winter wheat	Maritime	DK (1), DE (2)	DE (1), FR (1), UK (2)	11
	Mediterranean	ES (1)	-	
	North-east	-	LV (2)	
	South-east	-	SK (1)	
Spring wheat	Mediterranean	-	ES (1)	6
	North-east	LV (1)	LT (4)	
Durum wheat	Mediterranean	-	EL (1), FR (1), IT (1)	3
Winter triticale	Maritime	-	FR (1)	1
Winter barley	Maritime	DE (1), UK (1)	UK (1)	5
	Mediterranean	-	ES (1)	
	North-east	-	PL (1)	
Spring barley	Maritime	IE (1)	-	2
	North-east	-	PL (1)	
Winter rye	Maritime	-	DE (1)	3
	North-east	PL (1)	-	
	South-east	-	HR (1)	

Crop	EPPO climatic zone	Number of trials		
		Year		Total
		2018	2019	
Winter oats	Maritime	-	UK (1)	2
	Mediterranean	-	FR (1)	
Spring oats	Maritime	-	FR (1)	3
	North-east	-	LT (2)	

Trials presented only to demonstrate crop safety on cereals in this dossier have been carried in the following EPPO climatic zones and countries:

Maritime climatic zone: Denmark, Maritime regions of France, Germany, Ireland, United Kingdom

Mediterranean climatic zone: Mediterranean regions of France, Greece, Italy, Spain

North-east climatic zone: Latvia, Lithuania, Poland

South-east climatic zone: Croatia, Slovakia

Justification for data outside country of submission

Justification for the use of crop safety data included in this dossier is made according to EPPO PP 1/241(1) “Guidance on comparable climates”.

Based on climate comparability, data generated in all trials carried out in the Maritime EPPO climatic zone are fully supportive of demonstrating the crop safety of A12916B in the EU Central Registration zone (as relevant to Austria, Belgium, Czech Republic, Germany, Netherlands, United Kingdom), the EU Northern Registration zone (as relevant to Denmark), the EU Southern Registration zone (as relevant to Maritime regions of France).

Based on climate comparability, data generated in the trial carried out in the Mediterranean EPPO climatic zone are fully supportive of demonstrating the crop safety of A12916B in the EU Southern Registration zone (as relevant to Croatia, Portugal, Spain, Mediterranean regions of France).

Based on climate comparability, data generated in all trials carried out in the North-east EPPO climatic zone are fully supportive of demonstrating the crop safety of A12916B in the EU Central Registration zone (as relevant to Poland) and the EU Northern Registration zone (as relevant to Estonia, Latvia, Lithuania).

Based on climate comparability, data generated in all trials carried out in the South-east EPPO climatic zone are fully supportive of demonstrating the crop safety of A12916B in the EU Central Registration zone (as relevant to Hungary, Romania, Slovakia, Slovenia) and the EU Southern Registration zone (as relevant to Croatia, Bulgaria).

Trials methodology in relation to EPPO

Trials were conducted according to the EPPO guidelines stated in **Błąd! Nie można odnaleźć źródła odwołania.** (please see BAD, ref. VV-846678). Full details of the sites and applications are provided in Appendix 2. The hyperlinks to the GEP certificates of the official testing organisation are provided in Section 3.7.

In all trials, layout was according to the randomised complete block design with 4 replicates per treatment. All normal crop husbandry measures, with the exception of fungicides, were applied to the trials area by the grower, according to crop requirements and in accordance with good agricultural practice. Trials included a range of soil types and locations to determine crop tolerance under a range of

conditions. All trials were placed within regions representative of those where cereals are grown in relevant EU countries.

On all trials, applications were made using boom, bicycle or backpack sprayers and representative of application using commercial sprayers.

Treatments were applied in water volumes within the range of 150-400 L/ha across trials and therefore representative of proposed label ranges of between 100 and 400 L/ha.

The standard reference product (A14111B), containing 80 g/L azoxystrobin and 400 g/L chlorothalonil, was applied according to label recommendations but at a rate (1.25 L product/ha) that is lower than the maximum label rate (2.5 L product/ha) in all trials. Comparison of the crop safety of A12916B applied at the proposed label rate of 1.5 L product/ha to this standard reference product is considered to be fully appropriate and valid as this is a relevant co-formulant mixture, which also contains azoxystrobin together with an active substance with a multi-site mode of action and contact protectant activity, and the reduced rate of 1.25 L product/ha is commonly used commercially in EU countries. This standard reference product was also included for comparison at higher rates of 1.85 L product/ha or the maximum authorised label rate of 2.5 L product/ha in some of the trials.

Across 32 of the 36 trials, treatments were applied at a single timing between early April and late June when crop growth stages ranged from 35-37 to 61-65 (BBCH) between trials, where determined. Across the other 4 trials, treatments were applied at 2 timings between late April and late June when crop growth stages ranged from 31-32 to 32 (BBCH) at first timings and 39-45 to 49-55 (BBCH) at second timings with intervals between applications of 15-30 days. The range of crop growth stages at application were therefore fully representative of proposed label growth stage ranges for application from between 30 and 69 (BBCH).

Crop growth stages are described using the standard BBCH scale.

Crop phytotoxicity was assessed at various intervals after application. All assessments were on a 0-100 % scale, where 0 % = no damage and 100 % = total crop loss. Individual symptoms were recorded where appropriate. Where no phytotoxicity was observed, this was generally recorded within the individual trial data.

Crop colour was assessed as mean percentage green leaf area on a whole plot basis.

Crop yield was evaluated at normal commercial harvest using small plot combines to harvest crop from a fixed area per plot (7.5-23m²) and weighing the amount of grain collected. Moisture content of the grain was also determined and yield calculated in dt/hectare, corrected to 15% moisture content. Grain quality parameters (thousand grain weight, hectolitre weight and protein content) were determined on samples of grain collected from each plot at harvest.

The Student-Newman-Keuls (SNK) method is a test for simultaneous comparisons of multiple means which controls error rates among tests of multiple groups of means (multiple range test). Please note that from all of the above trials, the results in the summary tables were extracted from trial reports where treatments of no relevance to this submission were also included. As statistical analyses were conducted across the whole range of treatments, significance letters relate to the whole treatment list and not just to the data shown in the extracted tables.

Table 3.4-4: Details on trial methodology

Guidelines	General guidelines	PP1/135 (4), PP1/152 (4), PP1/181 (4), PP1/225 (2)
	Specific guidelines	PP 1/026 (4)
Experimental design	Plot design	RCB (36)
	Plot size	10-30 m ²
	Number of replications	4 (36)
Crop	Trials per crop	Winter wheat (11) Spring wheat (6) Durum wheat (3) Winter triticale (1) Winter barley (5) Spring barley (2) Winter rye (3) Winter oats (2) Spring oats (3)
	Varieties per crop	Winter wheat: Aguila (1), Complice (1), Corvinus (1), Fredis (1), Meister (1), Skyfall (2), Talsis (1), Tobak (1), Toras (1), Torp (1) Spring wheat: Colada (1), Cornetto (1), Crackling (1), Hamlet (1), Jetstream (1), Wicki (1) Durum wheat: Anvergur (1), Saragolla (1), Simeto (1) Winter triticale: Rgt Omeac (1) Winter barley: Bazooka (1), Belmont (1), Carat (1), Meridian (2) Spring barley: Blask (1), Propino (1) Winter rye: Dankowskie Diament (1), Dukato (1), Kws Bono (1) Winter oats: Charmoise (1), Mascani (1) Spring oats: Belinda (1), Ranch (1), Scorpion (1)
Application	Crop stage (BBCH) at application	Winter wheat: from BBCH 31-32 to BBCH 45-47 (A1), BBCH 45-61 (A2) Spring wheat: from BBCH 37-49 to BBCH 45-51 (A1) Durum wheat: from BBCH 37-41 to BBCH 45 (A1) Winter triticale: BBCH 49-53 (A1) Winter barley: from BBCH 31-32 to BBCH 49-51 (A1), BBCH 49-51 (A2) Spring barley: from BBCH 31-32 to BBCH 39-45 (A1), BBCH 39-45 (A2) Winter rye: from BBCH 41 to BBCH 49-51 (A1) Winter oats: from BBCH 39 to BBCH 41-51 (A1) Spring oats: from BBCH 49 to BBCH 61-65 (A1)
	Number of applications	1 (32), 2 (4)
	Spray volumes	150 L/ha (1), 200 L/ha (16), 220 L/ha (1), 250 L/ha (3), 300 L/ha (14), 400 L/ha (1)
Assessment	Assessment types	% green leaf area, % phytotoxicity, crop yield (dt/ha), HLW (kg/hL), TGW (g), protein content (%)
	Assessment dates	Wheat (20): between 7-47 DA-A1 / 4-28 DA-A2, at harvest Triticale (1): between 8-43 DA-A1, at harvest Barley (7): between 6-35 DA-A1 / 7-23 DA-A2, at harvest Rye (3): between 7-50 DA-A1, at harvest Oats (5): between 7-42 DA-A1, at harvest
Other relevant information	Field / Greenhouse...	Field

3.4.1.1 Phytotoxicity in wheat

Syngenta comment	No new data for wheat is presented in this section. Data from core assessment were not deleted as all these data demonstrate A12916B crop safety across different climatic conditions.
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Phytotoxicity was evaluated on all 86 efficacy trials and also a further 20 trials that generated data only on non-target diseases or where target diseases failed to develop or developed to only very low levels (<5% severity) on wheat.

Of these trials, 80 were carried out on winter wheat, 14 were carried out on durum wheat and 12 were carried out on spring wheat. Trials were conducted in the Maritime EPPO climatic zone (37 trials), Mediterranean EPPO climatic zone (27 trials), North-east EPPO climatic zone (21 trials) and South-east EPPO climatic zone (21 trials).

3.4.1.1.1 EPPO climatic zone – Maritime

Efficacy trials

Crop phytotoxicity was evaluated on 30 efficacy trials in the Maritime climatic zone. These trials were carried out in 2018 and 2019 in Belgium (2 trials) Germany (9 trials), Maritime regions of France (9 trials), Denmark (2 trials), Ireland (2 trials) and the United Kingdom (6 trials). Of these trials, 29 were carried out on winter wheat and 1 was carried out on durum wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Treatments were applied at a single timing on 18 of these trials, when crop growth stages ranged from 37 to 45-49 (BBCH), and at 2 timings on the other 12 trials, when crop growth stages ranged from 30-31 to 32 (BBCH) at first timings and 32 to 51-55 (BBCH) at second timings and with intervals between applications of 12-34 days.

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L, 1.85 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Maritime EPPO climatic zone are shown on a map presented in Section 3.2.3.1.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 30 trials.

Table 3.4-5 lists these trials and the varieties of wheat where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-5: Varieties where no adverse effects were recorded, efficacy trials in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Belgium	Bennington	BERDZF7662019
		Benchmark	BERDZF7672019
	Germany	Bussart	DEDSZF2882018
		Kashmir	DEDSZF1272018
		Tobak	DEDSZF2822019
			DESYZF7782019
		Ritmo	DEDSZF2892018
		Akteur	DEDSZF3132018
			DEDSZF9372018
		Benchmark	DEDSZF4142018
			DESYZF7792019
	Denmark	Torp	DKAVZF7682019
		Hereford	DKAVZF7692019
	France	Oregrain	FRBKZF8052018
		Lyrik	FRBKZF8062018
		Rgt Sacramento	FRBKZF8072018
		Trapez	FRCOZF8172018
		Istabraq	FRPZF8062018
		Apache	FRMBZF8202018
		Laurier	FRSYZF7762019
		Nemo	FRSYZF7772019
	UK	Reflection	GB26ZF2012018
		Britannia	GB26ZF2022018
		Barrel	GB27ZF2012018
		Kws Barrel	GB27ZF2022018
		Kws Bassett	GBSRZF9082018
		Soissons	GBSYZF8022019
	Ireland	Costello	IECPZF9042018
		Lumos	IETGZF7822019
Durum wheat	France	Miradoux	FRSYZF7722019

Trials with no or low levels of target diseases and/or a non-target disease

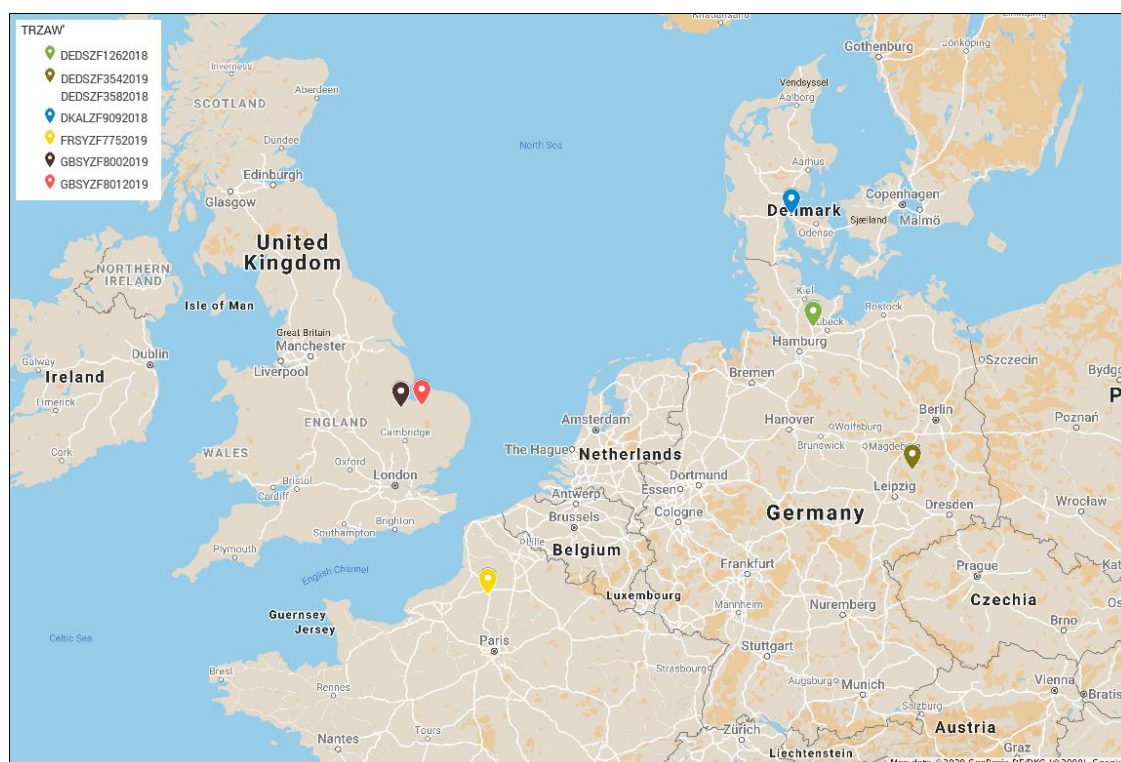
Crop phytotoxicity was evaluated on 7 trials in the Maritime climatic zone on which no or low levels of target diseases and/or a non-target disease occurred. These trials were carried out in 2018 and 2019 in Germany (3 trials), Maritime regions of France (1 trial), Denmark (1 trial) and the United Kingdom (2 trials). All of these trials were carried out on winter wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Treatments were applied at a single timing on 5 of these trials, when crop growth stages ranged from 35-37 to 45 (BBCH), and at 2 timings on the other 2 trials, when crop growth stages ranged from 31-32 to 32 at first timings and 45-61 to 49-55 (BBCH) at second timings and with intervals between applications of 18-30 days.

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L, 1.85 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these trials within the Maritime EPPO climatic zone in which no or low levels of target diseases and/or a non-target disease occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on these 7 trials.

Table 3.4-6 lists these trials and the varieties of wheat where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-6: Varieties where no adverse effects were recorded, trials with no or low levels of target diseases and/or a non-target disease in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Denmark	Torp	DKALZF9092018
	France	Complice	FRSYZF7752019
	Germany	Tobak	DEDSZF1262018
		Meister	DEDSZF3542019
		Toras	DEDSZF3582018
	UK	Skyfall	GBSYZF8002019
			GBSYZF8012019

Trial that generated samples of grain for processing tests

Crop phytotoxicity was evaluated on 1 trial in the Maritime climatic zone that generated samples of grain for processing tests. This trial was carried out in 2019 in a Maritime climatic region of France on winter wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin + 750 g folpet/ha).

Treatments were applied at a single timing on this trial when the crop growth stage was at 39-41 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L product/ha in this trial.

The location of this trial within the Maritime EPPO climatic zone that generated samples of grain for processing tests is shown on a map presented in Section 3.4.4.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxicity symptoms on this trial.

Table 3.4-7 lists this trial and the variety of wheat where the absence of phytotoxicity was recorded as a data set containing zeros.

Table 3.4-7: Variety where no adverse effects were recorded, trial that generated samples of grain for processing tests in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	France	Pastoral	FRSYZF8222019

3.4.1.1.2 EPPO climatic zone – Mediterranean

Efficacy trials

Crop phytotoxicity was evaluated on 22 efficacy trials in the Mediterranean climatic zone. These trials were carried out in 2018 and 2019 in Spain (7 trials), Greece (3 trials), Italy (6 trials) and Mediterranean regions of France (6 trials). Of these trials, 8 were carried out on winter wheat, 4 were carried out on spring wheat and 10 were carried out on durum wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37 to 47-51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Mediterranean EPPO climatic zone are shown on a map presented in Section 3.2.3.1.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 22 trials.

Table 3.4-8 lists these trials and the varieties of wheat where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-8: Varieties where no adverse effects were recorded, efficacy trials in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Spain	Somontano	ESDVZF0032018
		Marco Polo	ESSTZF0012018
	Italy	Giorgione	ITNOZF2402019
	France	Sy Moisson	FREUZF8062018
		Arezzo	FRSGZF8052018
		Soleiho	FRSYZF7702019
		Orloge	FRSYZF7732019
		Tiepolo	FRSYZF7742019
Spring wheat	Spain	Garcia	ESSAZF7332019
		Crackling	ESSAZF7342019
			ESSAZF7352019
	Italy	Giorgione	IT39ZF5312018
Durum wheat	Spain	Amilcar	ESAYZF0152018
		Athoris	ESAYZF7322019
	France	Anvergur	FRQUZF8092018
	Greece	Quadrato	GRAIZF3202018
		Maestrale	GRALZF3212018
		Egeo	GRUNZF7242019
	Italy	Achille	IT39ZF5302018
		Svevo	ITCEZF2412019
		Saragolla	ITSOZF0412018
		Massimo Meridio	ITSOZF2432019

Trials with no or low levels of a target disease or a non-target disease

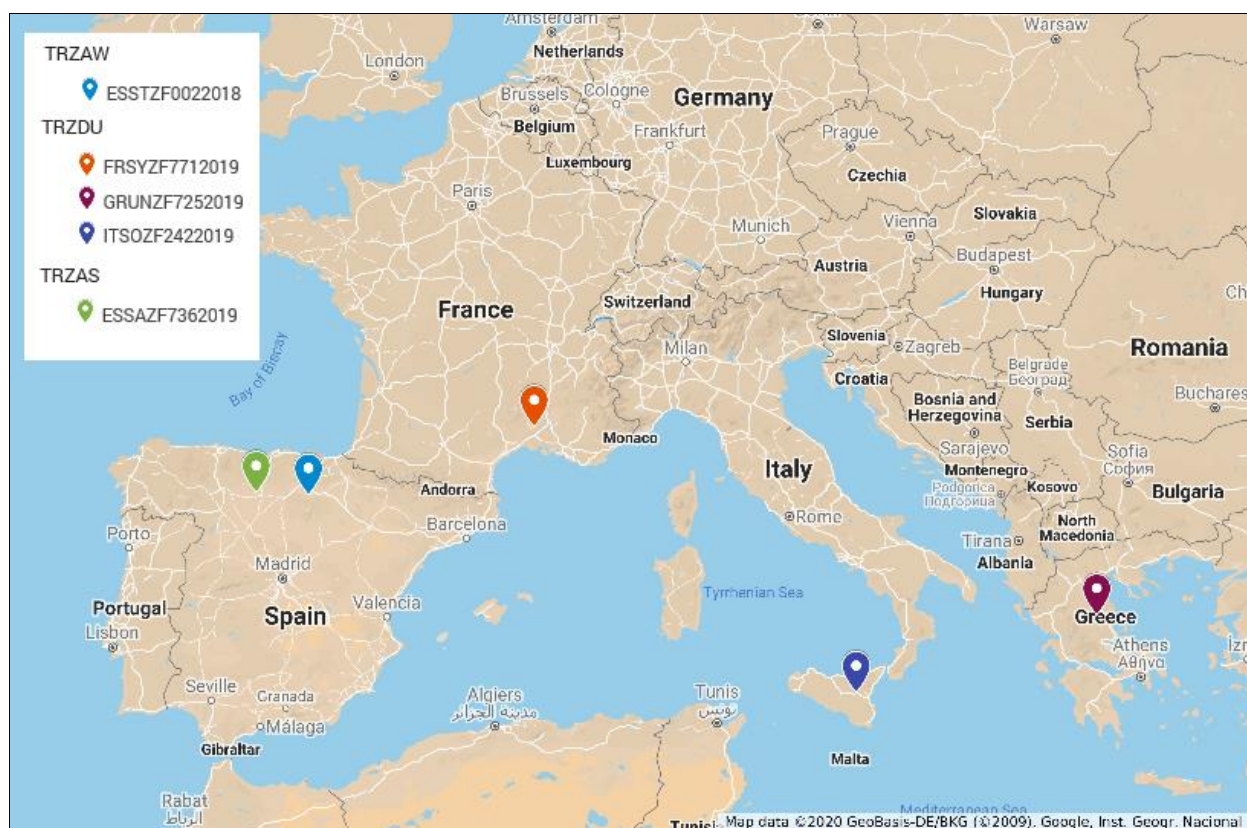
Crop phytotoxicity was evaluated on 5 trials in the Mediterranean climatic zone on which no disease, low levels of a target disease or a non-target disease occurred. These trials were carried out in 2018 and 2019 in Spain (2 trials), Italy (1 trial), Greece (1 trial) and Mediterranean regions of France (1 trial). Of these trials, 1 was carried out on winter wheat, 3 were carried out on durum wheat and 1 was carried out on spring wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across these trials, where determined, treatments were applied at a single timing made when crop growth stages ranged from 37 to 37-49 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these trials within the Mediterranean EPPO climatic zone in which no or low levels of a target disease or a non-target disease occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on these 5 trials.

Table 3.4-9 lists these trials and the varieties of wheat where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-9: Varieties where no adverse effects were recorded, trials with no or low levels of a target disease or non-target disease in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Spain	Aguila	ESSTZF0022018
Durum wheat	France	Anvergur	FRSYZF7712019
	Greece	Simeto	GRUNZF7252019
	Italy	Saragolla	ITSOZF2422019
Spring wheat	Spain	Crackling	ESSAZF7362019

Trial that generated samples of grain for processing tests

Crop phytotoxicity was evaluated on 1 trial in the Mediterranean climatic zone that generated samples of grain for processing tests. This trial was carried out in 2019 in a Mediterranean climatic region of France on winter wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin + 750 g folpet/ha).

Treatments were applied at a single timing on this trial when the crop growth stage was at 45 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at the maximum label rate of 2.5 L product/ha in this trial.

The location of this trial within the Mediterranean EPPO climatic zone that generated samples of grain for processing tests is shown on a map presented in Section 3.4.4.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxicity symptoms on this trial.

Table 3.4-10 lists this trial and the variety of wheat where the absence of phytotoxicity was recorded as a data set containing zeros.

Table 3.4-10: Variety where no adverse effects were recorded, trial that generated samples of grain for processing tests in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	France	Rebelde	FRSYZF8212019

3.4.1.1.3 EPPO climatic zone – North-east

Efficacy trials

Crop phytotoxicity was evaluated on 14 efficacy trials in the North-east climatic zone. These trials were carried out in 2018 and 2019 in Poland (11 trials) and Latvia (3 trials). Of these trials, 13 were carried out on winter wheat and 1 was carried out on spring wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 31-33 to 65 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the North-east EPPO climatic zone are shown on a map presented in Section 3.2.3.1.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 14 trials.

Table 3.4-11 lists these trials and the varieties of wheat where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-11: Varieties where no adverse effects were recorded, efficacy trials in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Latvia	Edvins	LVRIZF7842019
		Jelgavas novads Famulus	LVRIZF7852019
	Poland	Arkadia	PLBCZF1282018
			PLBCZF1292018
			PLSYZF7922019
			PLUPZF1092018
		Kws Ozon	PLFPZF1132018
		Naridana	PLSOZF1122018
		Zyta	PLSOZF1132018
		Lindberg	PLSYZF7912019
		Solehio	PLSYZF7932019
		Linus	PLSYZF7942019
		Bogatka	PLUPZF1102018
Spring wheat	Latvia	Granny	LVALZF1062018

Trials with low levels of target diseases and/or non-target diseases

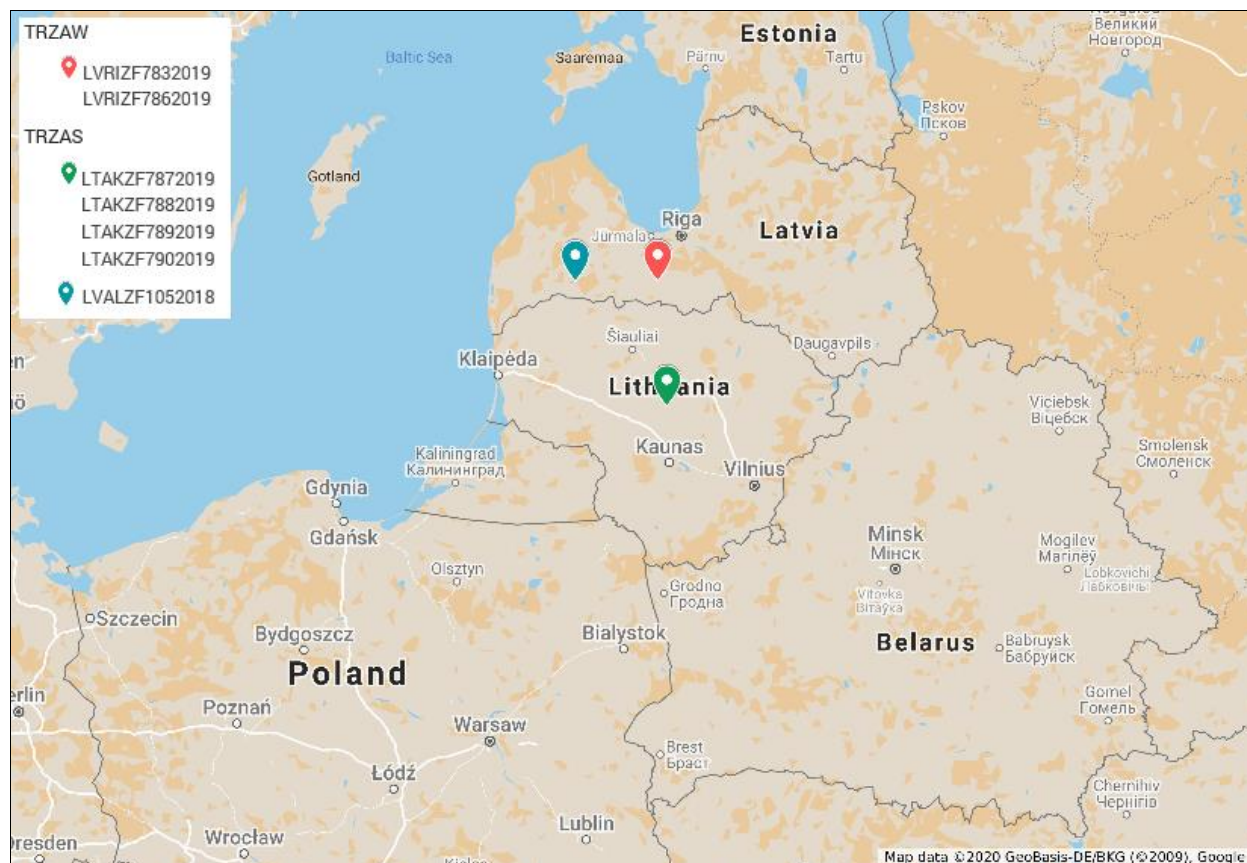
Crop phytotoxicity was evaluated on 7 trials in the North-east climatic zone on which low levels of target diseases and/or non-target diseases occurred. These trials were carried out in 2018 and 2019 in Lithuania (4 trials) and Latvia (3 trials). Of these trials, 2 were carried out on winter wheat and 5 were carried out on spring wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across these trials, treatments were applied at a single timing made when crop growth stages ranged from 37-39 to 45-51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these trials within the North-east EPPO climatic zone in which low levels of target diseases and/or non-target diseases occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 7 trials.

Table 3.4-12 lists these trials and the varieties where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-12: Varieties where no adverse effects were recorded, trials with low levels of target diseases and/or non-target diseases occurred in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Latvia	Fredis	LVRIZF7862019
		Talsis	LVRIZF7832019
Spring wheat	Latvia	Cornetto	LVALZF1052018
	Lithuania	Colada	LTAKZF7882019
		Hamlet	LTAKZF7872019
		Jetstream	LTAKZF7892019
		Wicki	LTAKZF7902019

3.4.1.1.4 EPPO climatic zone – South-east

Efficacy trials

Crop phytotoxicity was evaluated on 20 efficacy trials in the South-east climatic zone. These trials were carried out in 2018 and 2019 in Bulgaria (4 trials), Hungary (9 trials), Slovakia (1 trial) and Romania (6 trials). Of these trials, 19 were carried out on winter wheat and 1 was carried out on spring wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 33-35 to 47-49 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the South-east EPPO climatic zone are shown on a map presented in Section 3.2.3.1.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 20 trials.

Table 3.4-13 lists these trials and the varieties of wheat where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-13: Varieties where no adverse effects were recorded, efficacy trials in the South-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Bulgaria	Sadovo	BGEUZF2472018
		Korona	BGSAZF7222019
		Annapurna	BGANZF2462018
		Eksotic	BGSAZF7232019
	Hungary	Magdalena	HUAFZF4382018
		Taller	HUCPZF7282019
		Mv Nador	HUEUZF4392018
		Gk Bekes	HUCPZF7292019
		Bologna	HUHUZF4372018
		Gk Csillag	HUHUZF5032019
		Mv Buzogany	HUHUZF5042019
		Jafet	HUHUZF9022019
	Romania	Izvor	ROEUZF5082018
		Sorrial	ROSYZF7952019
		Dumbrava	ROSYZF7962019
		Apache	ROSYZF7972019
		Joker	ROSYZF7982019
			ROSYZF7992019
	Slovakia	Lukullus	SKNIZF7312019
Spring wheat	Hungary	Mv Suba	HUSTZF4402018

Trial with low levels of target diseases

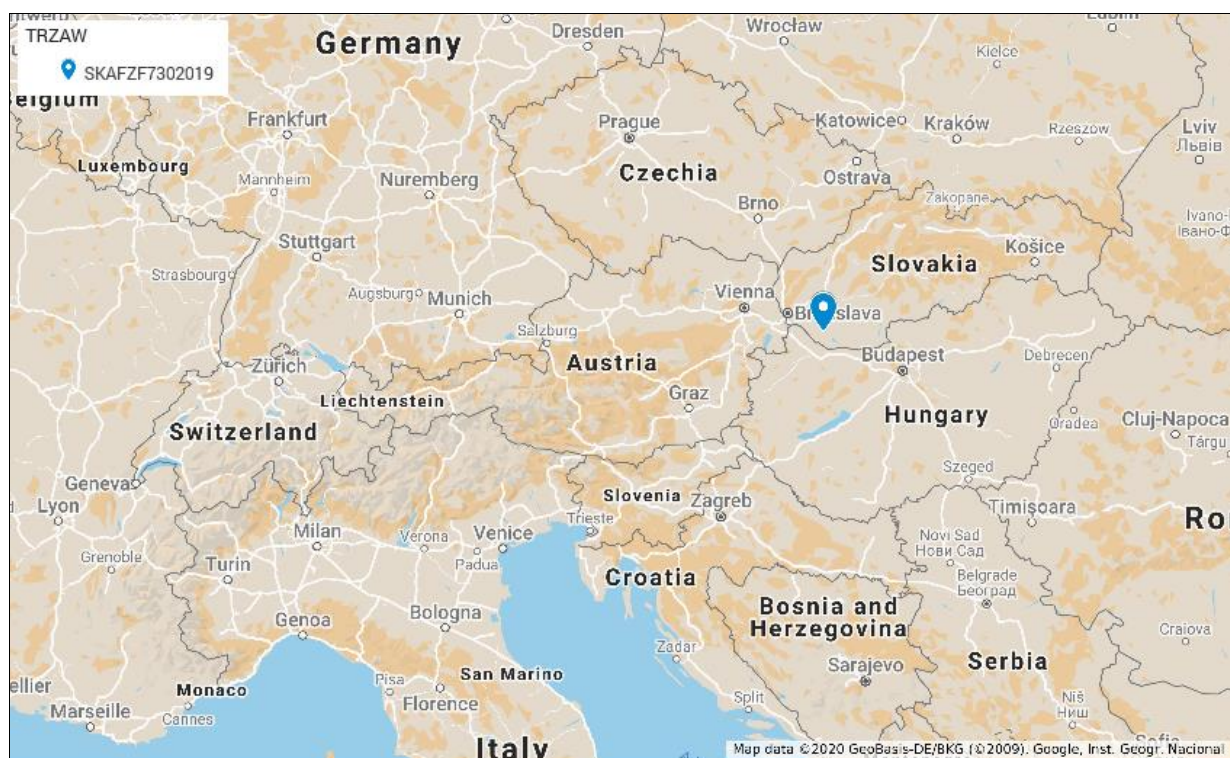
Crop phytotoxicity was evaluated on 1 trial in the South-east climatic zone on which low levels of target diseases occurred. This trial was carried out in 2019 in Slovakia on winter wheat.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 37-39 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in this trial.

The locations and distribution of these trials within the South-east EPPO climatic zone in which low levels of target diseases occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-14 lists this trial and the variety where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-14: Variety where no adverse effects were recorded, trial with low levels of target diseases in the South-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter wheat	Slovakia	Corvinus	SKAFZF7302019

3.4.1.1.5 Phytotoxicity on wheat: Overall conclusion from all EPPO climatic zones

Phytotoxicity was assessed on all 86 efficacy trials in 2018 and 2019 that generated data on target diseases and a further 20 trials in which no or low levels of target diseases and/or non-target diseases developed that were carried out in 2018 and 2019 on wheat.

Additionally, assessments for phytotoxicity were made on two trials that generated samples of grain for processing tests.

Of these 108 trials, 82 were carried out on winter wheat, 14 were carried out on durum wheat and 12 were carried out on spring wheat.

Of these 108 trials, 38 were carried out in the Maritime climatic zone (2 in Belgium, 11 in France, 12 in Germany, 3 in Denmark, 2 in Ireland, 8 in the United Kingdom), 28 were carried out in the Mediterranean climatic zone (8 in France, 7 in Italy, 4 in Greece, 9 in Spain), 21 were carried out in the North-east climatic zone (4 in Lithuania, 11 in Poland, 6 Latvia) and 21 were carried out in the South-east climatic zone (4 in Bulgaria, 9 in Hungary, 6 in Romania, 2 in Slovakia).

Treatments were applied at single timings on 94 of these trials, when crop growth stages were within the range of 31-65 (BBCH), where determined, and at 2 timings on the other 14 trials, when crop growth stages were within the range of 30-32 at first applications and 32-61 (BBCH) at second applications and with intervals between applications in the range of 12-34 days.

Comparison was made to standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L, 1.85 L and/or 1.25 L product/ha in these trials.

Across trials, crop safety has been tested under agronomic practices used for growing wheat and a range of climatic conditions representing those across relevant EU countries. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 108 trials is given in Table 3.4-15.

Table 3.4-15: Crop safety of A12916B across all trials on wheat

Number of trials with...		Trials with no or low disease (20 trials), trials that generated processing samples (2 trials)				Efficacy trials (86 trials)			
		A12916B	A14111B			A12916B	A14111B		
		1.5 L/HA	1.25 L/HA	1.85 L/HA	2.5 L/HA	1.5 L/HA	1.25 L/HA	1.85 L/HA	2.5 L/HA
Maximum of phytotoxicity recorded during the trials	0%	22	20	2	17	86	86	4	42
	>0% to 5%	0	0	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0	0	0
Level of symptoms at the last assessments	0%	22	20	2	17	86	86	4	42
	>0% to 5%	0	0	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0	0	0

One or two applications of A12916B at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of the 108 trials. Whilst only one application of A12916B is proposed per season, data summarised following two applications of A12916B in 14 of the trials are considered to represent a worst case scenario for causing phytotoxicity from potential cumulative effects of successive applications and therefore appropriate towards demonstrating crop safety.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on wheat (winter wheat, spring wheat, durum).

3.4.1.2 Phytotoxicity in triticale

Syngenta comment	For the purpose of this National Addendum the chapter is supplemented with new efficacy trials data in triticale from 2020-2023. Data from core assessment were not deleted as all these data demonstrate A12916B crop safety across different climatic conditions. New text and data are highlighted in green.
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Phytotoxicity was evaluated on all 9 efficacy trials and also a further 1 trial where a target disease developed to only very low levels (<5% severity) on triticale.

All of these 10 trials were carried out on winter triticale. Trials were conducted in the Maritime EPPO climatic zone (7 trials), Mediterranean EPPO climatic zone (1 trial) and North-east EPPO climatic zone (2 trials).

3.4.1.2.1 EPPO climatic zone – Maritime

Efficacy trials

Crop phytotoxicity was evaluated on 6 efficacy trials in the Maritime climatic zone. These trials were carried out in 2018 and 2019 in Germany (4 trials) and Maritime regions of France (2 trials). All of these trials were carried out on winter triticale.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across 6 trials, treatments were applied at a single timing made when crop growth stages ranged from 45-49 to 59 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Maritime EPPO climatic zone are shown on a map presented in Section 3.2.3.3.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 6 trials.

Table 3.4-16 lists these trials and the varieties of triticale where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Efficacy trials from 2020-2023

Crop phytotoxicity was evaluated on new 4 efficacy trials in the Maritime climatic zone. These trials were carried out in 2020 and 2021 in Germany on winter triticale.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across 6 trials, treatments were applied at a single timing when crop growth stages ranged from

37 to 59 (BBCH).

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 4 trials.

Table 3.4-16a lists these trials and the varieties of triticale where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-16: Varieties where no adverse effects were recorded, efficacy trials in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter triticale	Germany	Barolo	DEFZZF9092019
		Lombardo	DEDSZF3702019
		Su Agendus	DESYZF9082019
		Sy Lombardo	DESYZF9072019
	France	Tribeca	FRSYZF7512019
		Tribeca	FRSYZF8182018

Table 3.4-17a: Varieties where no adverse effects were recorded, efficacy trials in Germany from 2020-2021

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter triticale	Germany	Lombardo	DEDSZF9282021
		Lombardo	DESYZF6852021
		Su Agendus	DESYZF6382020
		Tender PZO	DESYZF6392020

Trial with low levels of a target disease

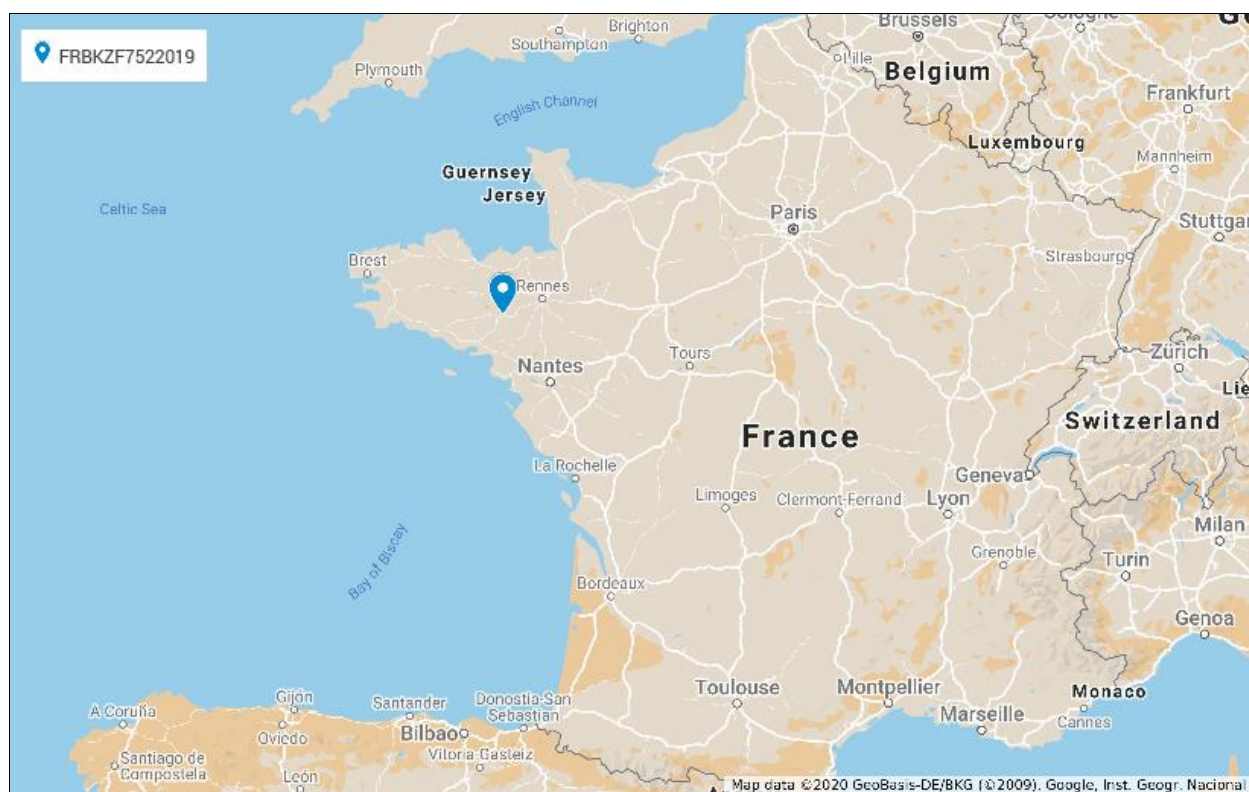
Crop phytotoxicity was evaluated on 1 trial in the Maritime climatic zone on which low levels of a target disease occurred. This trial was carried out in 2019 in a Maritime region of France on winter triticale.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when crop growth stage was at 49-53 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in this trial.

The location of this trial within the Maritime EPPO climatic zone in which low levels of a target disease occurred is shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-18 lists this trial and the variety where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-18: Variety where no adverse effects were recorded, trial with low levels of a target disease in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter triticale	France	Rgt Omeac	FRBKZF7522019

3.4.1.2.2 EPPO climatic zone – Mediterranean

Efficacy trials

Crop phytotoxicity was evaluated on 1 efficacy trial in the Mediterranean climatic zone. This trial was carried out in 2018 in a Mediterranean region of France on winter triticale.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 39-59 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in this trial.

The location of this efficacy trial within the Mediterranean EPPO climatic zone is shown on a map presented in Section 3.2.3.3.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-19 lists this trial and the variety of triticale where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-19: Varieties where no adverse effects were recorded, efficacy trial in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter triticale	France	Bikini	FRSYZF8192018

3.4.1.2.3 EPPO climatic zone – North-east

Efficacy trials

Crop phytotoxicity was evaluated on 2 efficacy trials in the North-east climatic zone. Both trials were carried out in 2019 in Poland on winter triticale.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37-39 to 39-41 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in both trials.

The locations and distribution of these efficacy trials within the North-east EPPO climatic zone are shown on a map presented in Section 3.2.3.3.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on either of these 2 trials.

Table 3.4-20 lists these trials and the varieties of triticale where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Efficacy trials from 2020-2023

Crop phytotoxicity was evaluated on new 7 efficacy trials in the North-east climatic zone. These trials were carried out in 2020 and 2021 in Poland on winter triticale.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across 7 trials, treatments were applied at a single timing when crop growth stages ranged from 37 to 53 (BBCH).

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic

symptoms on any of these 7 trials.

Table 3.4-20a lists these trials and the varieties of triticale where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-20: Varieties where no adverse effects were recorded, efficacy trials in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter triticale	Poland	Fredro	PLSYZF7532019
		Gringo	PLSYZF7542019

Table 3.4-21a: Varieties where no adverse effects were recorded, efficacy trials in Poland from 2020-2021

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter triticale	Poland	Meloman	PLBCZF8642021
		Belcanto	PLBCZF8652021
		Fredro	PLDSZF7132020
		Meloman	PLFPZF1072020
		Rotondo	PLSYZF6762021
		Dolindo	PLSYZF6772021
		Tadeus	PLSYZF6782021

3.4.1.2.4 Phytotoxicity on triticale: Overall conclusion from all EPPO climatic zones

Phytotoxicity was assessed on all 9 efficacy trials in 2018 and 2019 that generated data on target diseases and a further 1 trial in which low levels of a target disease developed that was carried out in 2019 on triticale.

All of these trials were carried out on winter triticale.

Of these 10 trials, 7 were carried out in the Maritime climatic zone (3 in France, 4 in Germany), 1 was carried out in the Mediterranean climatic zone (France) and 2 were carried out in the North-east climatic zone (Poland).

Whilst no data have been generated under conditions in the South-east EPPO climatic zone, agronomic and climatic conditions are generally similar to those in the Maritime, Mediterranean or North-east climatic zones. It is therefore reasonable to conclude that data generated in trials carried out in the Maritime, Mediterranean or North-east climatic zones are fully supportive of demonstrating the crop safety of A12916B in the South-east climatic zone.

Treatments were applied at a single timing made when crop growth stages were within the range of 37-59 (BBCH) across trials.

Comparison was made to standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

Across trials, crop safety has been tested under agronomic practices used for growing triticale and a range of climatic conditions representing those across relevant EU countries. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 10 trials is given in Table 3.4-22.

Table 3.4-22: Crop safety of A12916B across all trials on triticale

Number of trials with...		Trials with no or low disease (1 trial)			Efficacy trials (9 trials)		
		A12916B	A14111B		A12916B	A14111B	
		1.5 L/HA	1.25 L/HA	2.5 L/HA	1.5 L/HA	1.25 L/HA	2.5 L/HA
Maximum of phytotoxicity recorded during the trials	0%	1	1	1	9	9	7
	>0% to 5%	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0
Level of symptoms at the last assessments	0%	1	1	1	9	9	7
	>0% to 5%	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0

A single application of A12916B made at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 10 trials.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on triticale.

Efficacy trials from 2020-2023

Phytotoxicity was assessed on all 11 new efficacy trials in 2020 and 2021 that generated data on target diseases on triticale.

All ese trials were carried out on winter triticale.

Of these 11 trials, 4 were carried out in the Maritime climatic zone (Germany) and 7 were carried out in the North-east climatic zone (Poland).

Treatments were applied at a single timing when crop growth stages were within the range of 37-59 (BBCH) across trials.

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Across trials, crop safety has been tested under agronomic practices used for growing triticale and a range of climatic conditions that are considered representing those across Poland. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 11 trials is given in Table 3.4-22a.

Table 3.4-23a: Crop safety of A12916B across all trials on triticale, 2020-2023 trials

Number of trials with...		Trials with no or low disease (0 trial)		Efficacy trials (11 trials)	
		A12916B	FANDANGO 200 EC	A12916B	FANDANGO 200 EC
		1.5 L/HA	1.5 L/HA	1.5 L/HA	1.5 L/HA
Maximum of phytotoxicity recorded during the trials	0%	-	-	11	11
	>0% to 5%	-	-	0	0
	>5% to 10%	-	-	0	0
	>10% to 15%	-	-	0	0
	>15 %	-	-	0	0
Level of symptoms at the last assessments	0%	-	-	11	11
	>0% to 5%	-	-	0	0
	>5% to 10%	-	-	0	0
	>10% to 15%	-	-	0	0
	>15 %	-	-	0	0

A single application of A12916B made at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 11 trials.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on triticale.

3.4.1.3 Phytotoxicity in barley

Syngenta comment	For the purpose of this National Addendum the chapter is supplemented with new efficacy trials data in barley from 2020-2023. Data from core assessment were not deleted as all these data demonstrate A12916B crop safety across different climatic conditions. New text and data are highlighted in green.
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Phytotoxicity was evaluated on all 105 efficacy trials and also a further 7 trials where target diseases failed to develop or developed to only very low levels (<5% severity) on barley.

Of these trials, 85 were carried out on winter barley and 27 were carried out on spring barley. Trials were conducted in the Maritime EPPO climatic zone (38 trials), Mediterranean EPPO climatic zone (22 trials), North-east EPPO climatic zone (27 trials) and South-east EPPO climatic zone (25 trials).

3.4.1.3.1 EPPO climatic zone – Maritime

Efficacy trials

Crop phytotoxicity was evaluated on 34 efficacy trials in the Maritime climatic zone. These trials were carried out in 2018 and 2019 in Belgium (2 trials), Germany (12 trials), Maritime regions of France (11 trials), Denmark (2 trials), Ireland (2 trials) and the United Kingdom (5 trials). Of these trials, 28 were carried out on winter barley and 6 were carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Treatments were applied at a single timing on 25 of these trials, when crop growth stages ranged from 37 to 59 (BBCH), and at 2 timings on the other 9 trials, when crop growth stages ranged from 31 to 33 (BBCH) at first timings and 37-47 to 58 (BBCH) at second timings and with intervals between applications of 10-25 days.

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L, 1.85 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Maritime EPPO climatic zone are shown on a map presented in Section 3.2.3.4.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 34 trials.

Table 3.4-25 lists these trials and the varieties of barley where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-24: Varieties where no adverse effects were recorded, efficacy trials in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)
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		Variety	Trial Number
Winter barley	Belgium	Tonic	BERDZF7012019
			BERDZF7022019
	Germany	California	DEDSZF3502019
			DEDSZF5222018
			DEDSZF5222019
		Ketos	DEDSZF1982019
		Kws Kosmos	DEDSZF1272019
		Kws Tenor	DEDSZF1682018
		Leibniz	DEDSZF2972018
		Lomerit	DEDSZF1262019
			DEDSZF2832018
		Malwinta	DEDSZF1722018
		Sandra	DEDSZF3612018
		Vireni	DEDSZF4132018
	France	Amistar	FRATZF7132019
			FRBKZF8042018
		Etincel	FRASZF8052018
			FRASZF8062018
			FREPZF8052018
			FRSGZF8062018
			FRSYZF7062019
		Kws Cassia	FRCMZF8262018
		Tonic	FREPZF8072018
	UK	Belmont	GBSYZF7422019
		Kws Cassia	GBSRZF9042018
		Kws Tower	GBSGZF9032018
		Sy Venture	GBSYZF7402019
	Ireland	Kws Tower	IETGZF7202019
Spring barley	Denmark	Rgt Planet	DKAVZF7032019
			DKAVZF7042019
	France	Fandanga	FREPZF7082019
		Rgt Planet	FRBKZF7072019
	UK	Propino	GBSRZF9072018
	Ireland	Planet	IECPZF9052018

Efficacy trials from 2020-2023

Crop phytotoxicity was evaluated on all 12 new efficacy trials in the Maritime climatic zone. These trials were carried out in 2020, 2021, 2022 and 2023 in Germany (7 trials) and Czech Republic (5 trials). Of these trials, 6 were carried out on winter barley and 6 were carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across 12 trials, treatments were applied at a single timing when crop growth stages ranged from 37 to 59 (BBCH).

Comparison was made to the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha, FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha or HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 l/ha.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 12 trials.

Table 3.4-21a lists these trials and the varieties of barley where the absence of phytotoxicity was recorded

either as a data set containing zeros or within the comments section.

Table 3.4-25a: Varieties where no adverse effects were recorded, efficacy trials in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley	Germany	Ketos	DEDS0F9272020
		Lomerit	DEDS0F2892020
			DEBCZF8532021
		Meridian	DEDS0F3742020
		Orbit	DEBCZF8512021
Spring barley	Germany	Vireni	DEDS0F4082020
		Avalon	DESYZF6352021
	Czech Republic	Bojos	CZBYTF1132022
		Malz	CZPRTF1112023
			CZKUTF1052023
		Sebastian	CZDITF1032022
		Francin	CZDITF1042023

Trials with no or low levels of target diseases

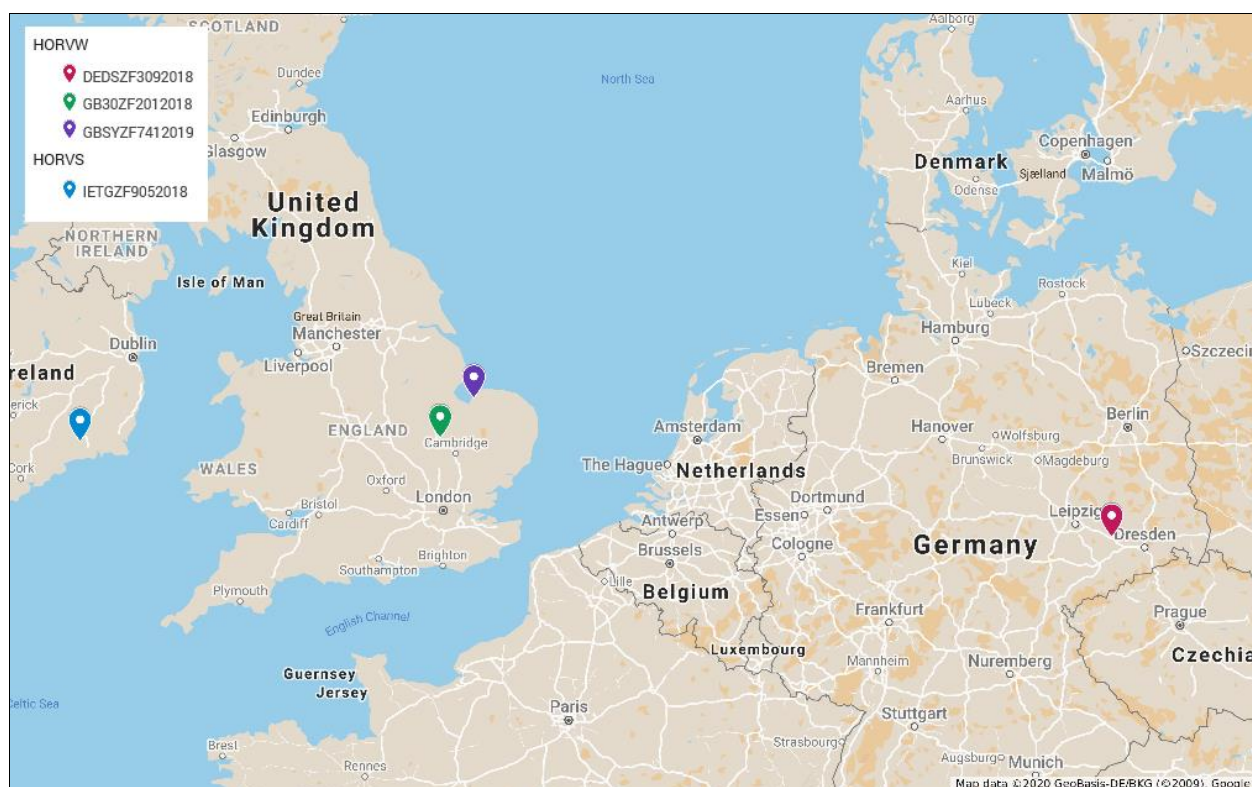
Crop phytotoxicity was evaluated on 4 trials in the Maritime climatic zone on which no or low levels of target diseases occurred. These trials were carried out in 2018 and 2019 in Germany (1 trial), Ireland (1 trial) and the United Kingdom (2 trials). Of these trials, 3 were carried out on winter barley and 1 was carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Treatments were applied at a single timing on 2 of the trials, when crop growth stages ranged from 37-41 to 45-51 (BBCH), and at 2 timings on the other 2 trials, when crop growth stages were at 31-32 (BBCH) at first timings and ranged from 39-45 to 49-51 (BBCH) at second timings and with intervals between applications of 15-20 days.

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L, 1.85 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these trials within the Maritime EPPO climatic zone in which no or low levels of target diseases occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on these 4 trials.

Table 3.4-26 lists these trials and the varieties of barley where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-26: Varieties where no adverse effects were recorded, trials with no or low levels of target diseases in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley	Germany	Meridian	DEDSZF3092018
	UK	Bazooka	GB30ZF2012018
		Belmont	GBSYZF7412019
Spring barley	Ireland	Propino	IETGZF9052018

3.4.1.3.2 EPPO climatic zone – Mediterranean

Efficacy trials

Crop phytotoxicity was evaluated on 21 efficacy trials in the Mediterranean climatic zone. These trials were carried out in 2018 and 2019 in Spain (9 trials), Italy (6 trials) and Mediterranean regions of France (6 trials). Of these trials, 15 were carried out on winter barley and 6 were carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 33-37 to 58-61 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Mediterranean EPPO climatic zone are shown on a map presented in Section 3.2.3.4.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 21 trials.

Table 3.4-27 lists these trials and the varieties of barley where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-27: Varieties where no adverse effects were recorded, efficacy trials in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley	Spain	Ibaiona	ESAYZF7132019
		Maltesse	ESEUZF0052018
		Meseta	ESANZF0062018
		Traveler	ESAYZF0172018
	France	Etincel	FREUZF8072018
			FRSGZF8072018
		Ketos	FRSYZF7112019
		Maltesse	FRBKZF7102019
		Rafaela	FRSYZF7122019
	Italy	Amistar	ITNOZF2462019
		Aquirone	IT39ZF5322018
		Planet	ITSOZF2452019
			ITSOZF2472019
		Sunshine	ITSOZF2442019
		Volume	ITNOZF0402018
Spring barley	Spain	Encarna	ESSAZF7162019
		Pewter	ESSAZF7142019
		Planet	ESSAZF7152019
		Rgt Planet	ESEUZF0032018
		Shakira	ESEUZF0042018
	France	Prestige	FRANZF8012018

Trial where no disease occurred

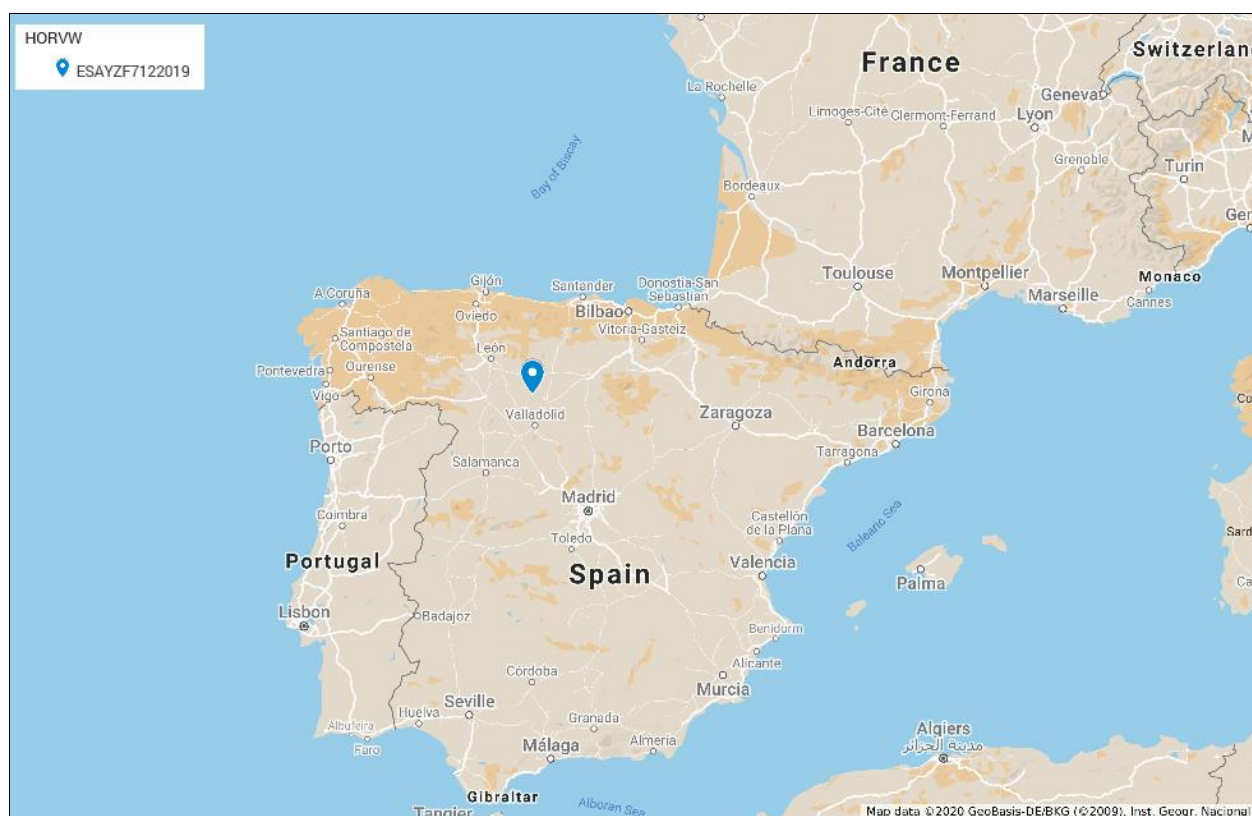
Crop phytotoxicity was evaluated on 1 trial in the Mediterranean climatic zone on which no disease occurred. This trial was carried out in 2019 in Spain on winter barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 47-49 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in this trial.

The location of this trial within the Mediterranean EPPO climatic zone in which no disease occurred is shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-28 lists this trial and the variety of barley where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-28: Variety where no adverse effects were recorded, trial with no disease in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley	Spain	Carat	ESAYZF7122019

3.4.1.3.3 EPPO climatic zone – North-east

Efficacy trials

Crop phytotoxicity was evaluated on 25 efficacy trials in the North-east climatic zone. These trials were carried out in 2018 and 2019 in Poland (14 trials), Lithuania (7 trials) and Latvia (4 trials). Of these trials, 13 were carried out on winter barley and 12 were carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials where determined, treatments were applied at a single timing made when crop growth stages ranged from 32 to 51-59 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the North-east EPPO climatic zone are shown on a map presented in Section 3.2.3.4.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 25 trials.

Table 3.4-29 lists these trials and the varieties of barley where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-29: Varieties where no adverse effects were recorded, efficacy trials in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley	Latvia	Kedainiai	LTAKZF7242019
		Meridian	LTAKZF7252019
	Poland	Bartos	PLSOZF1142018
		Bazant	PLSOZF7292019
		Holmes	PLSYZF7312019
		Ida	PLSYZF7302019
		Joy	PLSYZF7332019
		Kobuz	PLUPZF1112018
		Meridian	PLSYZF7322019
			PLSYZF7342019
		Scarpia	PLSOZF1152018
		Su Vireni	PLBCZF1302018
		Zenek	PLSTZF1072018
Spring barley	Latvia	Abava	LVLVZF1082018
		Austris	LVALZF1072018
		Quench	LVALZF1092018
		Tocada	LVRIZF7212019
	Lithuania	Luoke	LTAKZF1142018
		Milford	LTAKZF1152018
		Propino	LTAKZF7222019
		Quench	LTAKZF1132018
			LTAKZF7232019
	Poland	Basic	PLAGZF7262019

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
		Ella	PLULZF1022018
		Podarek	PLBCZF1312018

Trials with low levels of target diseases

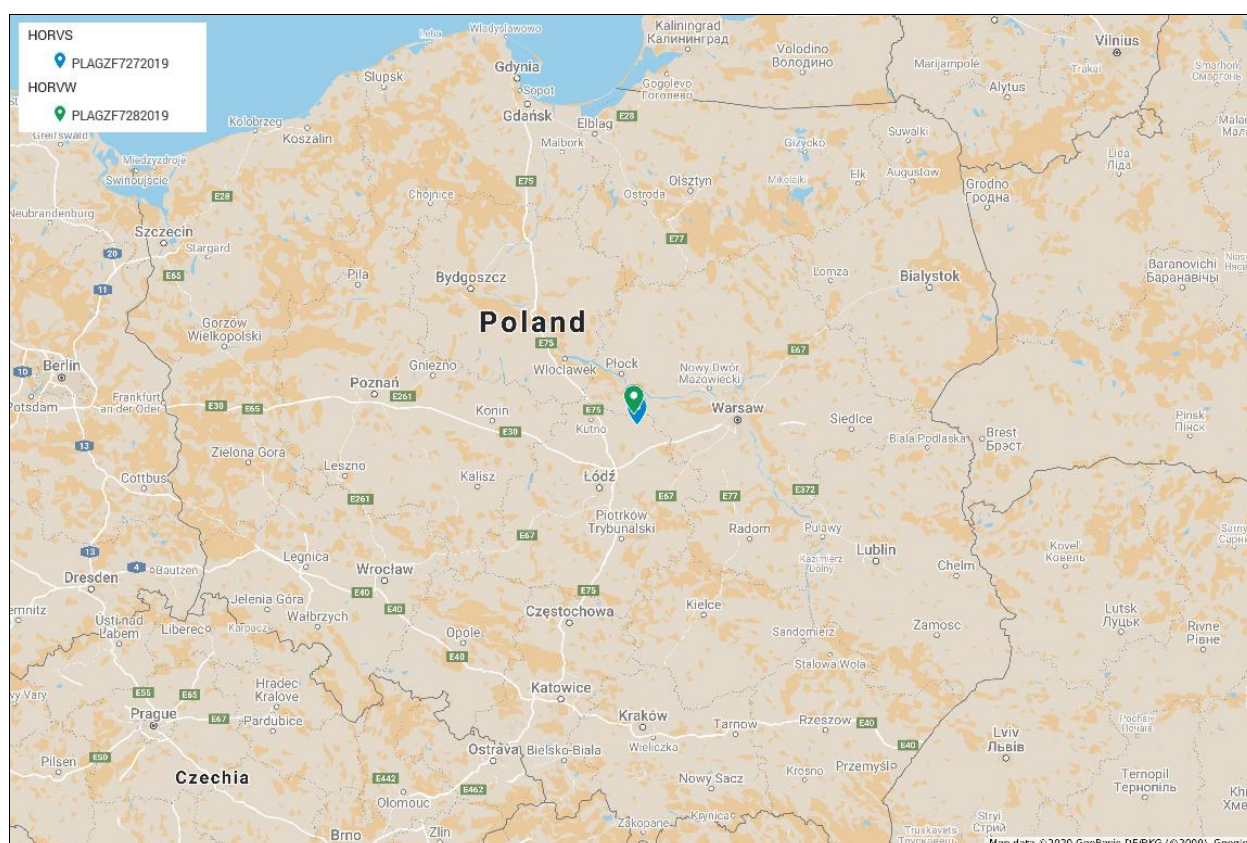
Crop phytotoxicity was evaluated on 2 trials in the North-east climatic zone on which low levels of target diseases occurred. Both of these trials were conducted in 2019 in Poland, with 1 trial carried out on winter barley and 1 trial carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across these trials, treatments were applied at a single timing made when crop growth stages ranged from 39-45 to 49-51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in both trials.

The locations and distribution of these trials within the North-east Maritime EPPO climatic zone in which low levels of target diseases occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on either of these 2 trials.

Table 3.4-30 lists these trials and the varieties where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-30: Varieties where no adverse effects were recorded, trials with low levels of target diseases in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley	Poland	Meridian	PLAGZF7282019
Spring barley	Poland	Blask	PLAGZF7272019

3.4.1.3.4 EPPO climatic zone – South-east

Efficacy trials

Crop phytotoxicity was evaluated on 25 efficacy trials in the South-east climatic zone. These trials were carried out in 2018 and 2019 in Bulgaria (10 trials), Hungary (6 trials) and Romania (9 trials). Of these trials, 24 were carried out on winter barley and 1 was carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 37-39 to 51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L, 1.75 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the South-east EPPO climatic zone are shown on a map presented in Section 3.2.3.4.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 25 trials.

Table 3.4-31 lists these trials and the varieties of barley where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-31: Varieties where no adverse effects were recorded, efficacy trials in the South-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley	Bulgaria	Ahat	BGSAZF7032019
		Fantasy	BGSTZF2522018
		Funky Nov	BGSAZF7052019
		Giga	BGSAZF7042019
		Obzor	BGEUZF2502018
			BGSGZF2512018
			BGSGZF7022019
		Potok	BGSAZF7062019
		Veslec	BGEUZF2492018
			BGSGZF7012019
	Hungary	Amazon	HUCPZF7072019
		Antonella	HUEUZF4432018
		Casanova	HUSYZF4412018
		Etincel	HUCPZF7112019
		Fridericus	HUHUZF4832019
		Su Elen	HUAFZF4422018

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter barley (continued)	Romania	Cardinal	ROEUZF5102018
			ROSYZF7392019
		Gerlach	ROPRZF7352019
		Heidi	ROBKZF5132018
		Montana	ROAUZF5122018
		Nectaria	ROSYZF7362019
		Salamandre	ROSYZF5112018
		Saturn	ROSYZF7372019
Spring barley	Romania	Thuringia	ROSYZF7382019

Efficacy trials from 2020-2023

Crop phytotoxicity was evaluated on 2 new efficacy trials in the South-east climatic zone. These trials were carried out in 2022 in Slovakia. Both trials were carried out on spring barley.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across 2 trials, treatments were applied at a single timing when crop growth stages ranged from 30 to 43 (BBCH).

Comparison was made to the standard reference product HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 l/ha.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 2 trials.

Table 3.4-27a lists these trials and the varieties of barley where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-27a: Varieties where no adverse effects were recorded, efficacy trials in South-east climatic zone, Slovakia

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Spring barley	Slovakia	Kangoo	SKBLTF1022022
			SKBLTF1052022

3.4.1.3.5 Phytotoxicity on barley: Overall conclusion from all EPPO climatic zones

Phytotoxicity was assessed on all 105 efficacy trials in 2018 and 2019 that generated data on target diseases and a further 7 trials in which no or low levels of target diseases developed that were carried out in 2018 and 2019 on barley.

Of these 112 trials, 85 were carried out on winter barley and 27 were carried out on spring barley.

Of these 112 trials, 38 were carried out in the Maritime climatic zone (2 in Belgium, 11 in France, 13 in Germany, 2 in Denmark, 3 in Ireland, 7 in the United Kingdom), 22 were carried out in the Mediterranean climatic zone (6 in France, 6 in Italy, 10 in Spain), 27 were carried out in the North-east climatic zone (7 in Lithuania, 16 in Poland, 4 Latvia) and 25 were carried out in the South-east climatic zone (10 in Bulgaria, 6 in Hungary, 9 in Romania).

Treatments were applied at a single timing on 101 of these trials, where determined, when crop growth stages were within the range of 32-61 (BBCH) and at 2 timings on the other 11 trials when crop growth

stages were within the range of 31-34 (BBCH) at first timings and 32-58 (BBCH) at second timings, with intervals between applications in the range of 10-25 days.

Comparison was made to standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L, 1.85 L, 1.75 L and/or 1.25 L product/ha in these trials.

Across trials, crop safety has been tested under agronomic practices used for growing barley and a range of climatic conditions representing those across relevant EU countries. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 112 trials is given in Table 3.4-32.

Table 3.4-32: Crop safety of A12916B across all trials on barley

Number of trials with...		Trials with no or low disease (7 trials)				Efficacy trials (105 trials)				
		A12916B	A14111B			A12916B	A14111B			
		1.5 L/HA	1.25 L/HA	1.85 L/HA	2.5 L/HA	1.5 L/HA	1.25 L/HA	1.75 L/HA	1.85 L/HA	2.5 L/HA
Maximum of phytotoxicity recorded during the trials	0%	7	7	1	4	105	105	11	3	53
	>0% to 5%	0	0	0	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0	0	0	0
Level of symptoms at the last assessments	0%	7	7	1	4	105	105	11	3	53
	>0% to 5%	0	0	0	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0	0	0	0

One or two applications of A12916B at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of the 112 trials. Whilst only one application of A12916B is proposed per season, data summarised following two applications of A12916B in 11 of the trials are considered to represent a worst case scenario for causing phytotoxicity from potential cumulative effects of successive applications and appropriate towards demonstrating crop safety.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on winter and spring barley.

Efficacy trials from 2020-2023

Phytotoxicity was assessed on all new 14 efficacy trials in 2020, 2021, 2022 and 2023 that generated data on target diseases on barley.

Of these 14 trials, 6 were carried out on winter barley and 8 were carried out on spring barley.

Of these 14 trials, 12 were carried out in the Maritime climatic zone (7 in Germany and 5 in Czech Republic) and 2 were carried out in the South-east climatic zone (in Slovakia).

Treatments were applied at a single timing when crop growth stages ranged from 37 to 59 (BBCH).

Comparison was made to the standard reference products A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha, FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha or HUTTON FORTE 280 EC (107 g/L spiroxamine + 93.9 g/L prothioconazole + 80 g/L trifloxystrobin) applied at 1.5 l/ha.

Across trials, crop safety has been tested under agronomic practices used for growing barley and a range of climatic conditions that are considered representing those across Poland. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 14 trials is given in Table 3.4-32a.

Table 3.4-33a: Crop safety of A12916B across all trials on barley, 2020-2023 trials

Number of trials with...		Trials with no or low disease (0 trial)		Efficacy trials (14 trials)				
		A12916B	Reference standard	A12916B	A14111B		FANDANGO 200 EC	HUTTON FORTE 280 EC
		1.5 L/ha	x L/ha	1.5 L/ha	1.25 L/ha	2.5 L/ha	1.25 L/ha	1.5 l/ha
Maximum of phytotoxicity recorded during the trials	0%	-	-	14	3	3	4	7
	>0% to 5%	-	-	0	0	0	0	0
	>5% to 10%	-	-	0	0	0	0	0
	>10% to 15%	-	-	0	0	0	0	0
	>15 %	-	-	0	0	0	0	0
Level of symptoms at the last assessments	0%	-	-	14	3	3	4	7
	>0% to 5%	-	-	0	0	0	0	0
	>5% to 10%	-	-	0	0	0	0	0
	>10% to 15%	-	-	0	0	0	0	0
	>15 %	-	-	0	0	0	0	0

A single application of A12916B made at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 14 trials.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on barley.

3.4.1.4 Phytotoxicity in rye

Syngenta comment	For the purpose of this National Addendum the chapter is supplemented with new efficacy trials data in rye from 2020-2023. Data from core assessment were not deleted as all these data demonstrate A12916B crop safety across different climatic conditions. New text and data are highlighted in green.
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Phytotoxicity was evaluated on all 17 efficacy trials and also a further 3 trials where a target disease failed to develop or only developed to very low levels (<5% severity) on rye.

All of these trials were carried out on winter rye. Trials were conducted in the Maritime EPPO climatic zone (8 trials), Mediterranean EPPO climatic zone (3 trials), North-east EPPO climatic zone (6 trials) and South-east EPPO climatic zone (3 trials).

3.4.1.4.1 EPPO climatic zone – Maritime

Efficacy trials

Crop phytotoxicity was evaluated on 7 efficacy trials in the Maritime climatic zone. These trials were carried out in 2018 and 2019 in Germany (5 trials) and Maritime regions of France (2 trials). All of these trials were carried out on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 32

to 55-59 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Maritime EPPO climatic zone are shown on a map presented in Section 3.2.3.5.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 7 trials.

Table 3.4-34 lists these trials and the varieties of rye where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-34: Varieties where no adverse effects were recorded, efficacy trials in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Germany	Binnitto	DEFMZ1032018
		Cossani	DEDSZF9292019
		Performer	DESYZF7612019
		Su Mephisto	DEFZZF1182018
		Su Performer	DEDSZF3062019
	France	Livado	FRSYZF7562019
		Protector	FRPVZF8182018

Efficacy trials from 2020-2023

Crop phytotoxicity was evaluated on all 6 new efficacy trials in the Maritime climatic zone. These trials were carried out in 2020 and 2021 in Germany. All trials were carried out on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across 6 trials, treatments were applied at a single timing when crop growth stages ranged from 33 to 53 (BBCH).

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 6 trials.

Table 3.4-29a lists these trials and the varieties of rye where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-35a: Varieties where no adverse effects were recorded, efficacy trials in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
		Cossani	DEDSZF9292020
		Composit, SU	DEBCZF6672021
		Forsetti	DEDSZF9272021
		Performer	DEDSZF3182021
		Mephisto	DEDSZF9262021

		Serafino	DEDSZF9302020
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Trial where no disease occurred

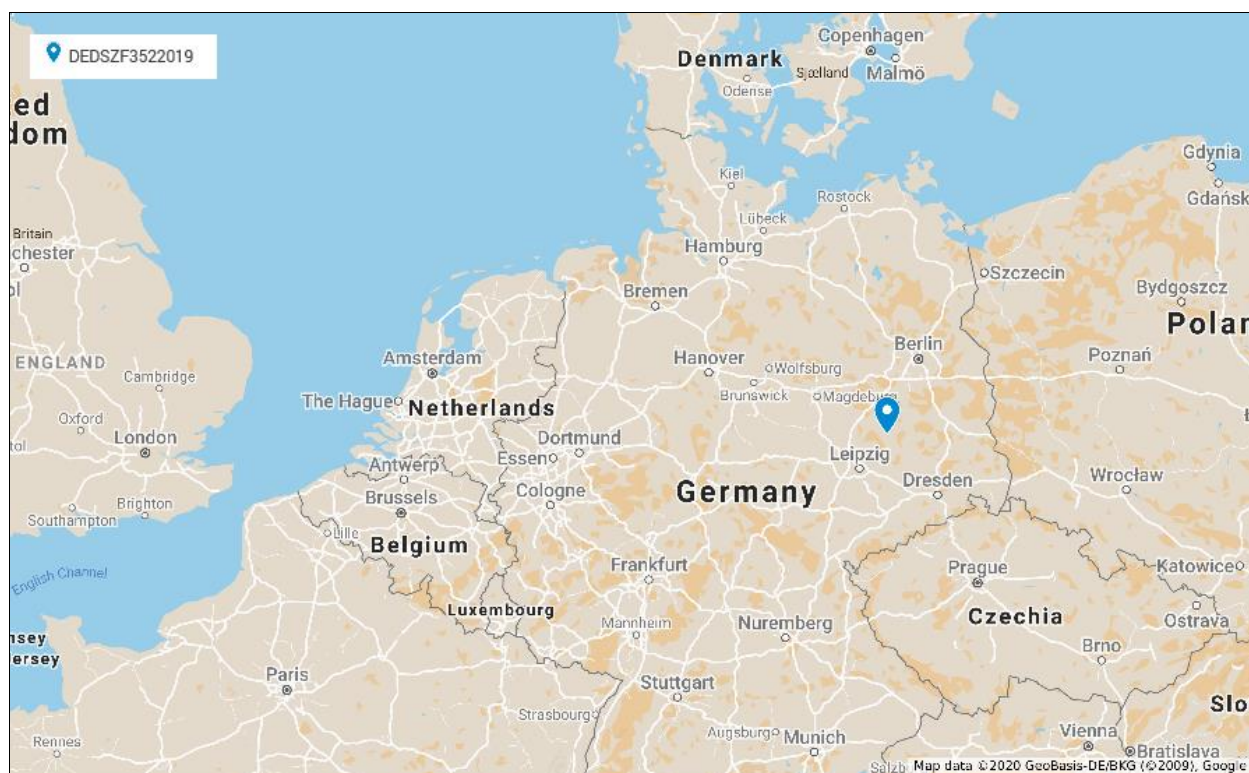
Crop phytotoxicity was evaluated on 1 trial in the Maritime climatic zone on which no disease occurred. This trial was carried out in 2019 in Germany on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 45-51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in this trial.

The location of this trial within the Maritime EPPO climatic zone in which no disease occurred is shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-36 lists this trial and the variety where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-36: Variety where no adverse effects were recorded, trial where no disease occurred in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Germany	Dukato	DEDSZF3522019

3.4.1.4.2 EPPO climatic zone – Mediterranean

Efficacy trials

Crop phytotoxicity was evaluated on 3 efficacy trials in the Mediterranean climatic zone. These trials were carried out in 2018 and 2019 in Spain (2 trials) and a Mediterranean region of France (1 trial). All of these trials were carried out on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 39-51 to 52 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Mediterranean EPPO climatic zone are shown on a map presented in Section 3.2.3.5.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 3 trials.

Table 3.4-37 lists these trials and the varieties of rye where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-37: Varieties where no adverse effects were recorded, efficacy trials in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Fance	Su Composit	FRSYZF8172018
	Spain	Corssini	ESSYZF7552019
		Serafino	ESSYZF7572019

3.4.1.4.3 EPPO climatic zone – North-east

Efficacy trials

Crop phytotoxicity was evaluated on 5 efficacy trials in the North-east climatic zone. These trials were

carried out in 2018 and 2019 in Poland on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 23-28 to 49-51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the North-east EPPO climatic zone are shown on a map presented in Section 3.2.3.5.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 5 trials.

Table 3.4-38 lists these trials and the varieties of rye where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-38: Varieties where no adverse effects were recorded, efficacy trials in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Poland	Su Nasri	PLSYZF7622019
		Szamotuly	PLSYZF7632019
		Tur	PLSYZF7642019
			PLSYZF7652019
		Daniello	PLSOZF1162018

Efficacy trials from 2020-2023

Crop phytotoxicity was evaluated on all 9 new efficacy trials in the North-east climatic zone. These trials were carried out in 2020 and 2021 in Poland (8 trials) and Lithuania (1 trial). Of these trials, 8 were carried out on winter rye and 1 was carried out on spring rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

Across 9 trials, treatments were applied at a single timing when crop growth stages ranged from 37 to 51 (BBCH).

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 9 trials.

Table 3.4-32a lists these trials and the varieties of rye where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-39a: Varieties where no adverse effects were recorded, efficacy trials in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Poland		

		Tur	PLFPZF1082020
		KWS Jethro	PLBCZF8622021
		Bono	PLBCZF8632021
		Dolaro	PLSOZF6742021
		Dankowskie Granat	PLSYZF6682021
		KWS Jethro	PLSYZF6692021
		Dańkowskie Diament	PLSYZF6702021
		Piano	PLSYZF6712021
Spring rye	Lithuania	Bojko	LTAKZF6662021

Trial with low levels of a target disease

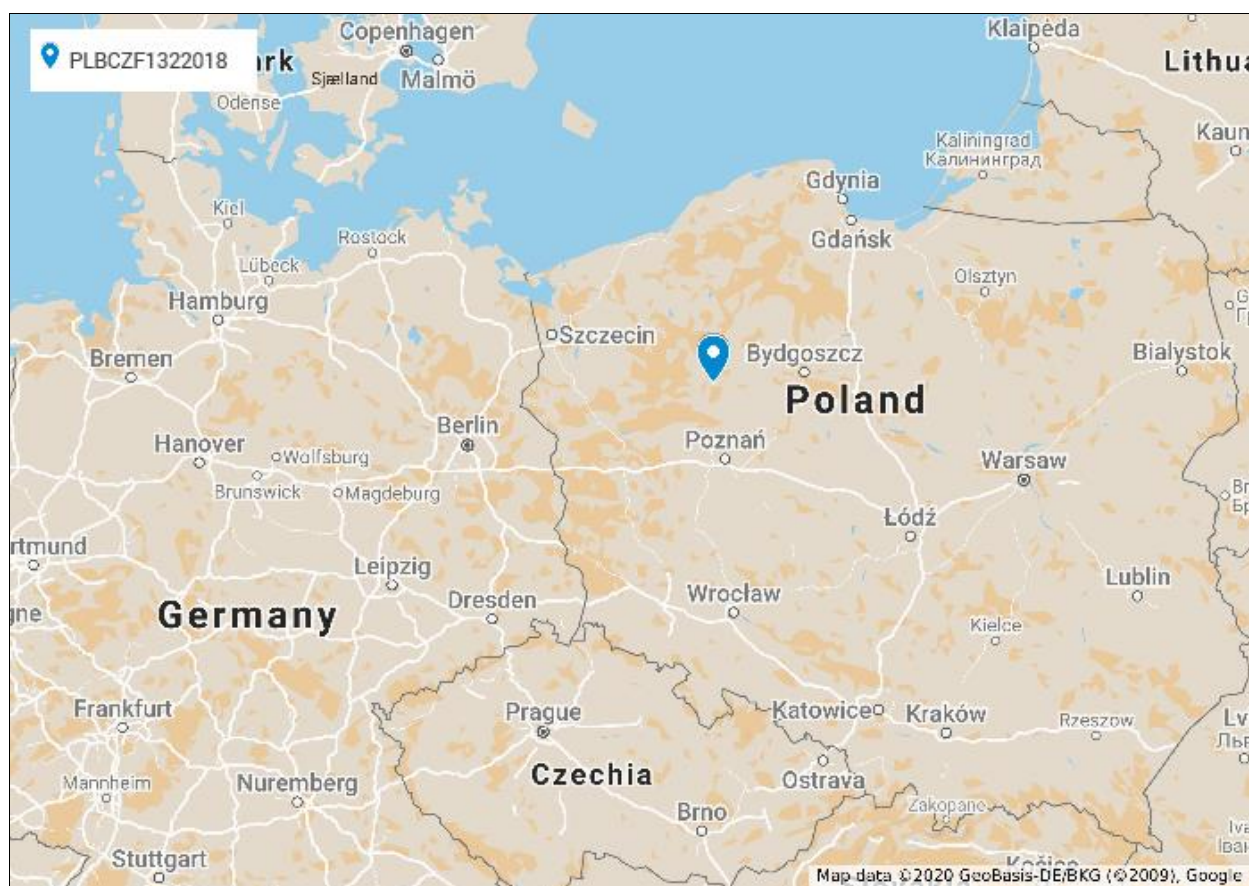
Crop phytotoxicity was evaluated on 1 trial in the North-east climatic zone on which low levels of a target disease occurred. This trial was carried out in 2018 in Poland on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 41 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in this trial.

The location of this trial within the North-east EPPO climatic zone in which no disease occurred is shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-40 lists this trial and the variety where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-40: Variety where no adverse effects were recorded, trial where no disease occurred in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Poland	Dankowskie Diament	PLBCZF1322018

3.4.1.4.4 EPPO climatic zone – South-east

Efficacy trials

Crop phytotoxicity was evaluated on 2 efficacy trials in the South-east climatic zone. These trials were carried out in 2019 in Bulgaria (1 trial) and Croatia (1 trial). Both of these trials were carried out on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 41-47 to 48-50 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in both trials.

The locations and distribution of these efficacy trials within the South-east EPPO climatic zone are shown on a map presented in Section 3.2.3.5.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on either of these 2 trials.

Table 3.4-41 lists these trials and the varieties of rye where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-41: Varieties where no adverse effects were recorded, efficacy trials in the South-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Croatia	Kws Binntto	HRATZF7212019
	Bulgaria	Milennium	BGSAZF7192019

Trial with low levels of a target disease

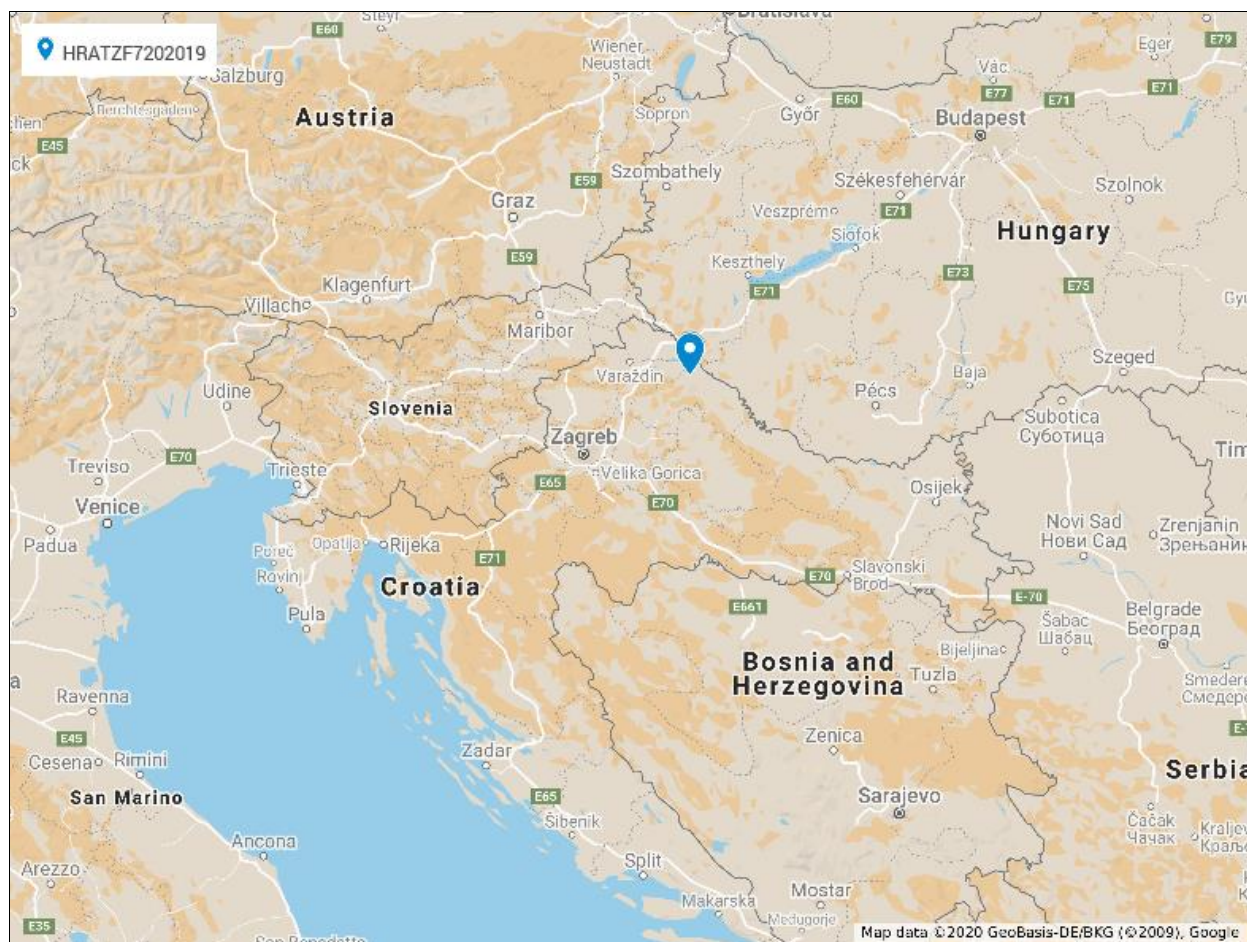
Crop phytotoxicity was evaluated on 1 trial in the South-east climatic zone on which low levels of a target disease occurred. This trial was carried out in 2019 in Croatia on winter rye.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 49-51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in this trial.

The location of this trial within the South-east EPPO climatic zone in which low levels of a target disease occurred is shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-42 lists this trial and the variety where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-42: Variety where no adverse effects were recorded, trial with low levels of a target disease in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter rye	Croatia	Kws Bono	HRATZF7202019

3.4.1.4.5 Phytotoxicity on rye: Overall conclusion from all EPPO climatic zones

Phytotoxicity was assessed on all 17 efficacy trials in 2018 and 2019 that generated data on target diseases and a further 3 trials in which no or low levels of a target disease developed that were carried out in 2018 and 2019 on rye.

All of these 20 trials were carried out on winter rye.

Of these 20 trials, 8 were carried out in the Maritime climatic zone (2 in France, 6 in Germany), 3 were carried out in the Mediterranean climatic zone (1 in France, 2 in Spain), 6 were carried out in the North-east climatic zone (Poland) and 3 were carried out in the South-east climatic zone (1 in Bulgaria, 2 Croatia).

Treatments were applied at a single timing made when crop growth stages were within the range of 23-59 (BBCH) across trials.

Comparison was made to standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

Across trials, crop safety has been tested under agronomic practices used for growing rye and a range of climatic conditions representing those across relevant EU countries. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 20 trials is given in Table 3.4-43.

Table 3.4-43: Crop safety of A12916B across all trials on rye

Number of trials with...		Trials with no or low disease (3 trials)			Efficacy trials (17 trials)		
		A12916B	A14111B		A12916B	A14111B	
		1.5 L/HA	1.25 L/HA	2.5 L/HA	1.5 L/HA	1.25 L/HA	2.5 L/HA
Maximum of phytotoxicity recorded during the trials	0%	3	3	2	17	17	12
	>0% to 5%	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0
Level of symptoms at the last assessments	0%	3	3	2	17	17	12
	>0% to 5%	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0

A single application of A12916B made at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 20 trials.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on winter and spring rye.

Efficacy trials from 2020-2023

Phytotoxicity was assessed on all 15 new efficacy trials in 2020 and 2021 that generated data on target diseases on rye. Of these, 14 trials were carried out on winter rye and 1 trial was carried out on spring rye.

Of these 15 trials, 6 were carried out in the Maritime climatic zone (Germany) and 9 were carried out in

the North-east climatic zone (8 trials in Poland and 1 in Lithuania).

Treatments were applied at a single timing when crop growth stages were within the range of 33-53 (BBCH) across trials.

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.5 l/ha.

Across trials, crop safety has been tested under agronomic practices used for growing rye and a range of climatic conditions that are considered representing those across Poland. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 15 trials is given in Table 3.4-2236a.

Table 3.4-36a: Crop safety of A12916B across all trials on rye, 2020-2023 trials

Number of trials with...		Trials with no or low disease (0 trial)		Efficacy trials (15 trials)	
		A12916B	FANDANGO 200 EC	A12916B	FANDANGO 200 EC
		1.5 L/HA	1.5 L/HA	1.5 L/HA	1.5 L/HA
Maximum of phytotoxicity recorded during the trials	0%	-	-	15	15
	>0% to 5%	-	-	0	0
	>5% to 10%	-	-	0	0
	>10% to 15%	-	-	0	0
	>15 %	-	-	0	0
Level of symptoms at the last assessments	0%	-	-	15	15
	>0% to 5%	-	-	0	0
	>5% to 10%	-	-	0	0
	>10% to 15%	-	-	0	0
	>15 %	-	-	0	0

A single application of A12916B made at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 15 trials.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on rye.

3.4.1.5 Phytotoxicity in oats

Syngenta comment	For the purpose of this National Addendum the chapter is supplemented with new efficacy trials data in oats from 2020-2023. Data from core assessment were not deleted as all these data demonstrate A12916B crop safety across different climatic conditions. New text and data are highlighted in green .
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Phytotoxicity was evaluated on all 5 efficacy trials and also a further 5 trials where a target disease failed to develop or where a target disease and a non-target disease developed to only very low levels (<5% severity) on oats.

Of these trials, 5 were carried out on winter oats and 5 were carried out on spring oats. Trials were conducted in the Maritime EPPO climatic zone (6 trials), Mediterranean EPPO climatic zone (2 trials) and North-east EPPO climatic zone (2 trials).

3.4.1.5.1 EPPO climatic zone – Maritime

Efficacy trials

Crop phytotoxicity was evaluated on 4 efficacy trials in the Maritime climatic zone. These trials were carried out in 2018 and 2019 in Germany (2 trials), a Maritime region of France (1 trial) and the United Kingdom (1 trial). Of these trials, 2 were carried out on winter oats and 2 were carried out on spring oats.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 39 to 51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

The locations and distribution of these efficacy trials within the Maritime EPPO climatic zone are shown on a map presented in Section 3.2.3.6.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 4 trials.

Table 3.4-44 lists these trials and the varieties of oats where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-44: Varieties where no adverse effects were recorded, efficacy trials in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter oats	France	Timoko	FREUZ8222018
	UK	Dalguise	GBSYZF7492019
Spring oats	Germany	Apollon	DESYZF7462019
		Max	DEFZZF7452019

Trials where no disease occurred

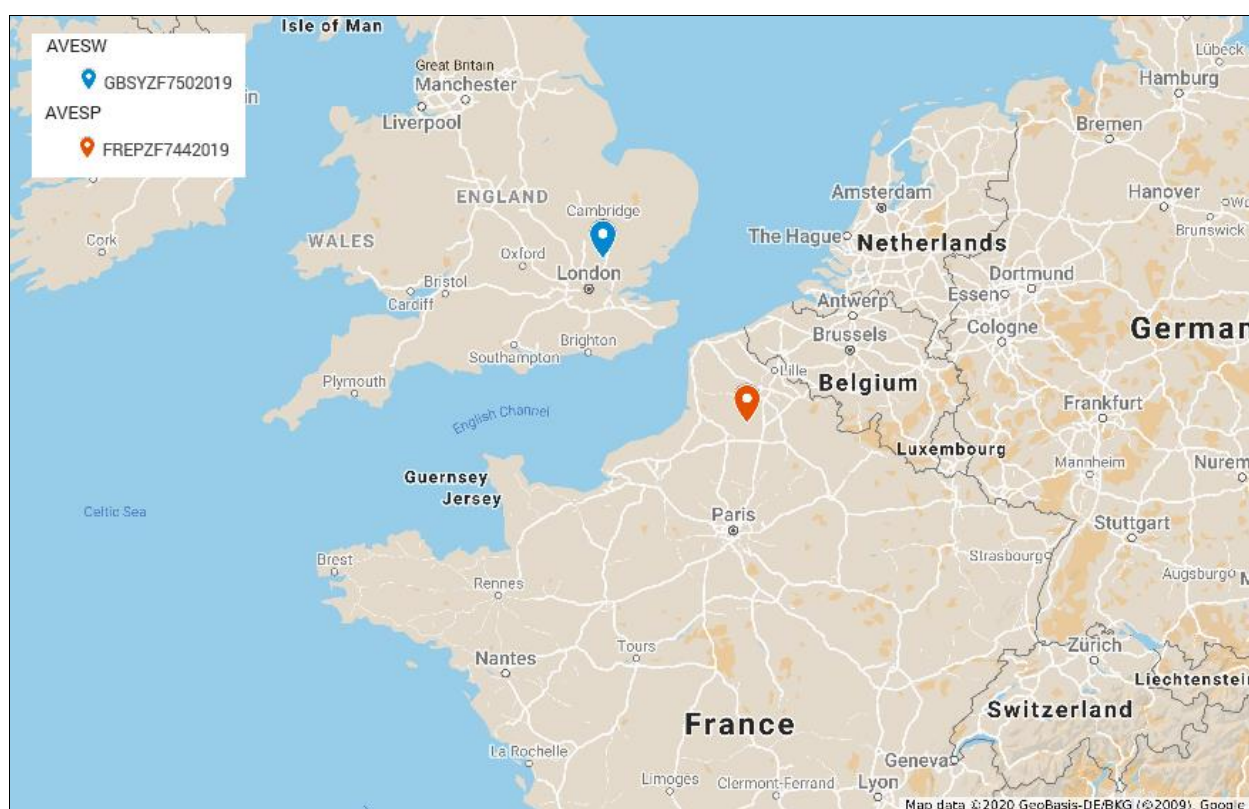
Crop phytotoxicity was evaluated on 2 trials in the Maritime climatic zone in which no disease occurred. These trials were carried out in 2019 in a Maritime region of France (1 trial) and the United Kingdom (1 trial). Of these trials, 1 was carried out in winter oats and 1 was carried out on spring oats.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 39 to 49 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in both trials.

The locations and distribution of these trials within the Maritime EPPO climatic zone in which no disease occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on either of these 2 trials.

Table 3.4-45 lists these trials and the varieties of oats where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-45: Varieties where no adverse effects were recorded, trials with no disease in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter oats	UK	Mascani	GBSYZF7502019

Spring oats	France	Ranch	FREPZF7442019
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3.4.1.5.2 EPPO climatic zone – Mediterranean

Efficacy trials

Crop phytotoxicity was evaluated on 1 efficacy trial in the Mediterranean climatic zone. This trial was carried out in 2018 in a Mediterranean region of France on winter oats.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 37-43 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at 1.25 L product/ha in this trial.

The location of this efficacy trial within the Mediterranean EPPO climatic zone is shown on a map presented in Section 3.2.3.6.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-46 lists this trial and the variety of oats where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-46: Varieties where no adverse effects were recorded, efficacy trial in the Mediterranean climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter oats	France	Charmoise	FRPVZF8152018

Trial where no disease occurred

Crop phytotoxicity was evaluated on 1 trial in the Mediterranean climatic zone on which no disease occurred. This trial was carried out in 2019 in a Mediterranean region of France on winter oats.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On this trial, treatments were applied at a single timing made when the crop growth stage was at 41-51 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in this trial.

The location of this trial within the Mediterranean EPPO climatic zone in which no disease occurred is shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on this 1 trial.

Table 3.4-47 lists this trial and the variety of oats where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-47: Variety where no adverse effects were recorded, trial with no disease in the Maritime climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Winter oats	France	Charmoise	FRSYZF7432019

3.4.1.5.3 EPPO climatic zone – North-east

Efficacy trials from 2020-2023

Crop phytotoxicity was evaluated on 2 efficacy trials in the North-east climatic zone. These trials were carried out in 2021 in Poland. All trials were carried out on spring oats.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On these trials, treatments were applied at a single timing made when crop growth stages ranged from 41 to 49 (BBCH).

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 2 trials.

Table 3.4-44 lists these trials and the varieties of oats where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-40a: Varieties where no adverse effects were recorded, efficacy trials in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Spring oats	Poland	Bingo	PLSYZF6602021
		Kasztan	PLSYZF6622021

Trials with low levels of a target disease and a non-target disease

Crop phytotoxicity was evaluated on 2 trials in the North-east climatic zone on which low levels of a target disease and a non-target disease occurred. Both trials were carried out in 2019 in Lithuania on spring oats.

The objective was to confirm the crop safety of A12916B applied at the maximum proposed label rate of 1.5 L product/ha (140 g azoxystrobin/ha + 750 g folpet/ha).

On both trials, treatments were applied at a single timing made when the crop growth stage was at 61-65 (BBCH).

Comparison was made to the standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and 1.25 L product/ha in both trials.

The locations and distribution of these trials within the North-east EPPO climatic zone in which low levels of a target disease and a non-target disease occurred are shown on the following map.



A12916B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on either of these 2 trials.

Table 3.4-48 lists these trials and the varieties of oats where the absence of phytotoxicity was recorded either as a data set containing zeros or within the comments section.

Table 3.4-48: Varieties where no adverse effects were recorded, trials with low levels of a target disease and a non-target disease in the North-east climatic zone

Crop	Country	A12916B (1.5 L product/ha)	
		Variety	Trial Number
Spring oats	Lithuania	Belinda	LTAKZF7472019
		Scorpion	LTAKZF7482019

3.4.1.5.4 Phytotoxicity on oats: Overall conclusion from all EPPO climatic zones

Phytotoxicity was assessed on all 5 efficacy trials in 2018 and 2019 that generated valid data on target diseases and a further 5 trials in which no or low levels of target disease and/or a non-target disease developed, that were carried out in 2019 on oats.

Of these 10 trials, 5 were carried out on winter oats and 5 were carried out on spring oats.

Of these 10 trials, 6 were carried out in the Maritime climatic zone (2 in France, 2 in Germany, 2 in the United Kingdom), 2 were carried out in the Mediterranean climatic zone (France) and 2 were carried out in the North-east climatic zone (Lithuania).

Whilst no data have been generated under conditions in the South-east EPPO climatic zone, a single application of A12916B at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxicity on any of the trials carried out on oats in the Maritime, Mediterranean or North-east climatic zones or on any of the other cereal crops on which trials have been carried out in any of the EPPO climatic zones, including the South-east climatic zone. It is therefore reasonable to consider that A12916B applied at the maximum proposed label rate of 1.5 L product/ha is crop safe on oats in the South-east climatic zone.

Treatments were applied at a single timing made when crop growth stages were within the range of 37-65 (BBCH) across trials.

Comparison was made to standard reference product A14111B (80 g/L azoxystrobin + 400 g/L chlorothalonil) applied at rates of 2.5 L and/or 1.25 L product/ha in these trials.

Across trials, crop safety has been tested under agronomic practices used for growing oat and a range of climatic conditions representing those across relevant EU countries. Trials were carried on a range of different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 10 trials is given in Table 3.4-49.

Table 3.4-49: Crop safety of A12916B across all trials on oats

Number of trials with...		Trials with no or low disease (5 trials)			Efficacy trials (5 trials)		
		A12916B	A14111B		A12916B	A14111B	
		1.5 L/HA	1.25 L/HA	2.5 L/HA	1.5 L/HA	1.25 L/HA	2.5 L/HA
Maximum of phytotoxicity recorded during the trials	0%	5	5	5	5	5	3
	>0% to 5%	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0
Level of symptoms at the last assessments	0%	5	5	5	5	5	3
	>0% to 5%	0	0	0	0	0	0
	>5% to 10%	0	0	0	0	0	0
	>10% to 15%	0	0	0	0	0	0
	>15 %	0	0	0	0	0	0

A single application of A12916B made at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 10 trials.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on winter and spring oats.

Efficacy trials from 2020-2023

Phytotoxicity was assessed on all 2 new efficacy trials in 1 2021 that generated data on target diseases on rye. Both trials were carried out on spring oats.

Both trials were carried out in the North-east climatic zone (Poland).

Treatments were applied at a single timing when crop growth stages ranged from 41 to 49 (BBCH) across trials.

Comparison was made to the standard reference product FANDANGO 200 EC (100 g/L prothioconazole + 100 g/L fluoxastrobin) applied at 1.25 l/ha.

Across trials, crop safety has been tested under agronomic practices used for growing oats and a range of climatic conditions that are considered representing those across Poland. Trials were carried on two different commercially representative varieties of the crop.

An overall summary of phytotoxicity of A12916B across these 2 trials is given in Table 3.4-42a.

Table 3.4-42a: Crop safety of A12916B across all trials on oats, 2020-2023 trials

Number of trials with...		Trials with no or low disease (0 trial)		Efficacy trials (2 trials)	
		A12916B	FANDANGO 200 EC	A12916B	FANDANGO 200 EC
		1.5 L/HA	1.25 L/HA	1.5 L/HA	1.25 L/HA
Maximum of phytotoxicity recorded during the trials	0%	-	-	2	2
	>0% to 5%	-	-	0	0
	>5% to 10%	-	-	0	0
	>10% to 15%	-	-	0	0
	>15 %	-	-	0	0
Level of symptoms at the last assessments	0%	-	-	2	2
	>0% to 5%	-	-	0	0
	>5% to 10%	-	-	0	0
	>10% to 15%	-	-	0	0
	>15 %	-	-	0	0

A single application of A12916B made at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxic symptoms on any of these 2 trials.

Based on the summarised data, it is therefore considered that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on oats.

Conclusion to “Phytotoxicity to host crop”

The presented data correspond with the requirements of the EPPO Standard PP 1/135 (Phytotoxicity assessment).

In none of the 43 new efficacy trials on triticale, barley, rye and oats between 2020-2023 presented in this submission were phytotoxicity symptoms observed.

3.4.1.6 Phytotoxicity in grasses (ornamental and for seed production)

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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Products containing straight azoxystrobin or folpet have been authorised for use as fungicides in wide range crops, including monocotyledonous crops, in EU countries for a number of years and crop safety is well established through research and commercial practice.

Whilst no data is summarised in support of demonstrating crop safety of A12916B on grasses (ornamental and for seed production), data generated in trials carried out in cereal crops show that A12916B applied at the maximum proposed label rate of 1.5 L product/ha causes no phytotoxicity or adverse effects on growth and development. The physiology of grass species can be considered to be sufficiently comparable to those of cereals for the data generated in trials on wheat, triticale, barley, rye and oats to provide evidence of crop safety on grasses (ornamental and for seed production).

Based on presented data from trials on cereal crops and proven crop safety through commercial use, it can therefore be concluded that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on grasses (ornamental and for seed production).

3.4.1.7 Phytotoxicity in Miscanthus (energy crop)

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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Products containing straight azoxystrobin or folpet have been authorised for use as fungicides in wide range crops, including monocotyledonous crops, in EU countries for a number of years and crop safety is well established through research and commercial practice.

Whilst no data is summarised in support of demonstrating crop safety of A12916B on energy crop – Miscanthus, data generated in trials carried out in cereal crops show that A12916B applied at the maximum proposed label rate of 1.5 L product/ha causes no phytotoxicity or adverse effects on growth and development. The physiology of grass species can be considered to be sufficiently comparable to those of cereals for the data generated in trials on wheat, triticale, barley, rye and oats to provide evidence of crop safety on Miscanthus.

Based on presented data from trials on cereal crops and proven crop safety through commercial use, it can therefore be concluded that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on Miscanthus.

3.4.1.8 Phytotoxicity in forage grasses for seed production

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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Products containing straight azoxystrobin or folpet have been authorised for use as fungicides in wide range crops, including monocotyledonous crops, in EU countries for a number of years and crop safety is well established through research and commercial practice.

Furthermore, straight azoxystrobin products are currently authorised for use in forage grasses for seed production to control Rusts (*Puccinia sp.*) and Leaf spot (*Septoria sp.*) in France, where these are minor uses.

Whilst no data is summarised in support of demonstrating crop safety of A12916B on forage grasses for seed production, data generated in trials carried out in cereal crops show that A12916B applied at the maximum proposed label rate of 1.5 L product/ha causes no phytotoxicity or adverse effects on growth and development. The physiology of grass species, the agronomy of cultivated crops and the areas where crops are grown can be considered to be sufficiently comparable to those of cereals for the data generated in trials on wheat, triticale, barley, rye and oats to also demonstrate crop safety on forage grasses for seed production.

Based on presented data from trials on cereal crops and proven crop safety through commercial use, it can therefore be concluded that A12916B applied at up to the maximum proposed label rate of 1.5 L product/ha is crop safe on forage grasses for seed production.

3.4.2 Effect on the yield of treated plants or plant product (KCP 6.4.2)

For information on the yield of treated plants or plant product please refer to Biological Assessment Dossier, Section 3: Efficacy Data and Information, Core assessment (ref. Document ID: VV-846678, June 2020).

No new data are provided. No data are considered needed for this submission as A12916B yield of treated plants or plant product was fully addressed in Core submission.

3.4.3 Effects on the quality of plants or plant products (KCP 6.4.3)

For information on the quality of plants or plant products please refer to Biological Assessment Dossier, Section 3: Efficacy Data and Information, Core assessment (ref. Document ID: VV-846678, June 2020).

No new data are provided. No data are considered needed for this submission as A12916B quality of plants or plant products was fully addressed in Core submission.

3.4.4 Effects on transformation processes (KCP 6.4.4)

For information on transformation processes please refer to Biological Assessment Dossier, Section 3: Efficacy Data and Information, Core assessment (ref. Document ID: VV-846678, June 2020).

No new data are provided. No data are considered needed for this submission as A12916B transformation processes was fully addressed in Core submission.

3.4.5 Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)

For information on treated plants or plant products to be used for propagation please refer to Biological Assessment Dossier, Section 3: Efficacy Data and Information, Core assessment (ref. Document ID: VV-846678, June 2020).

No new data are provided. No data are considered needed for this submission as A12916B treated plants or plant products to be used for propagation was fully addressed in Core submission.

3.4.6 Summary and conclusions on adverse effects on the treated crop

Assessments for phytotoxicity have been carried out on a total of 222 efficacy trials + 43 new efficacy trials and also on 38 trials with no or low disease on cereals (wheat, durum, spelt, triticale, barley, rye, oats) following the application of A12916B at the maximum proposed label rate of 1.5 L product/ha under wide ranging conditions across countries in the Maritime, Mediterranean, North-east and South-east EPPO climatic zones.

Of the trials with no or low disease, assessments were carried out for crop yield on 29 of the trials and for grain quality on 27 of the trials, with processing (breadmaking for wheat) and germination tests having been conducted on grain sampled from 2 of the trials.

A129168B applied at the maximum proposed label rate of 1.5 L product/ha caused no phytotoxicity on any of these trials and also had no adverse impact on crop yield, grain quality, processing or germination of progeny seed, on trials where evaluations were carried.

A129168B is therefore shown to have no adverse effects on the treated crop when applied at the maximum proposed label rate of 1.5 L product/ha on cereals (wheat, durum, spelt, triticale, barley, rye, oats) and also minor crops (grasses and Miscanthus) where relevant, in all countries in which authorisation is sought.

3.5 Observations on other undesirable or unintended side-effects (KCP 6.5)

3.5.1 Impact on succeeding crops (KCP 6.5.1)

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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As the active substances in A12916B, azoxystrobin and folpet are fungicides known to have no significant herbicidal activity. Products containing azoxystrobin or folpet have been authorised in EU countries and worldwide for many years and are proven through widespread commercial use to have no adverse impact on succeeding crops.

Risk from direct exposure

Within document Part B, Section 9 - Ecotoxicology data were summarised from a seedling emergence and vegetative vigour test originally conducted for assessing the risk to non-target plants. A summary of the data are presented here to conclude on the risk for succeeding and adjacent crops.

In the seedling emergence test, six species of higher plants, two monocotyledonous (*Allium cepa*, *Avena fatua*) and four dicotyledonous (*Cucumis sativus*, *Glycine max*, *Beta vulgaris*, *Brassica napus*), were treated with six test concentrations of A12916B or a control (tap water only). Seeds were sown directly into the pots at 1-2cm depth. The formulated product was applied to the soil surface after sowing, without any incorporation into the soil, simulating typical spray application. Visual phytotoxicity ratings were recorded 28 days after application. Evaluation of phytotoxicity was done by visual observations and recording inhibition of emergence or plant injury using a rating scale from 1 – 9 (1 = complete destruction and no emergence, 9 = no effect or similar to untreated). A summary of the results is presented in table 3.5.1-1.

Similar to the seedling emergence study for the vegetative vigour test, six species of higher plants, two monocotyledonous (*Allium cepa*, *Avena fatua*) and four dicotyledonous (*Cucumis sativus*, *Glycine max*, *Beta vulgaris*, *Brassica napus*), were treated with six test concentrations of A12916B or a control (tap water only). Plants for the vegetative growth test were germinated in seed trays and transplanted shortly after emergence. The spray application onto the plants was performed at 14 days (warm season plants) and 17 days (cool season plants) after sowing. Visual phytotoxicity ratings were recorded 21 days after application. Evaluation of phytotoxicity was done by visual observations and recording inhibition of emergence or plant injury using a rating scale from 1 – 9 (1 = complete destruction and no emergence, 9 = no effect or similar to untreated). A summary of the results is presented in table 3.5.1-2.

Table 3.5.1-1: Effect of A12916B on seedling emergence

Test species	Application rate (mL A12916B/ha)					
	100	200	400	800	1600	3200
<i>Avena fatua</i> (wild oat)	9	9	9	9	9	9
<i>Allium cepa</i> (onion)	9	9	9	9	9	9
<i>Brassica napus</i> (oilseed rape)	9	9	9	9	9	9
<i>Beta vulgaris</i> (sugar beet)	9	9	9	9	9	7
<i>Cucumis sativus</i>	9	9	9	9	9	9

(cucumber)						
<i>Glycine max</i> (soybean)	9	9	9	9	9	9

Scale from 0 to 9: 1 = complete destruction and no emergence, 9 = no effect or similar to untreated.

Table 3.5.1-2: Effect of A12916B on vegetative vigour

Test species	Application rate (mL A12916B/ha)					
	100	200	400	800	1600	3200
<i>Avena fatua</i> (wild oat)	9	9	9	8	6	6
<i>Allium cepa</i> (onion)	9	9	9	9	9	-
<i>Brassica napus</i> (oilseed rape)	9	9	9	9	9	8
<i>Beta vulgaris</i> (sugar beet)	9	9	9	9	9	9
<i>Cucumis sativus</i> (cucumber)	9	9	9	9	9	9
<i>Glycine max</i> (soybean)	9	9	9	9	9	9

Scale from 0 to 9: 1 = complete destruction and no emergence, 9 = no effect or similar to untreated.

Conclusion

No significant effects were observed on seedling emergence and vegetative vigour of all six plant species up to and including the highest rate tested of 3200 ml A12916B/ha.

It is therefore reasonable to conclude that a single application of A12916B at the maximum proposed label rate of 1.5 L product/ha and applied according to label recommendations has no impact on succeeding crops.

3.5.2 Impact on other plants including adjacent crops (KCP 6.5.2)

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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Azoxystrobin and folpet are fungicides known to have no significant herbicidal activity and little or no effects on plant growth and development.

Products containing azoxystrobin or folpet, either in co-formulations or as the sole active ingredient, have been approved and widely used as fungicides in a range of different crop types in EU countries for many years and are well proven to cause no phytotoxicity or other adverse on a diverse range of crop types and other plant species.

It is therefore reasonable to conclude that a single application of A12916B at the maximum proposed label rate of 1.5 L product/ha and applied according to label recommendations has no impact on other plants including adjacent crops.

Tank cleaning

According to EPPO PP 1/292(1) "Cleaning pesticide application equipment (PAE) – efficacy aspects" if

no phytotoxic symptoms are observed on tested crops then no further testing is necessary.

In addition, within document Part B, Section 1 IIIA 4.2 *Procedures for tank cleaning application equipment* data were summarized from tests to determine the effectiveness of the tank cleaning procedure for A12916B (azoxystrobin / folpet SC (093.5 / 500)). The cleaning procedure followed is detailed below:

Immediately after use, clean the spray equipment thoroughly. Drain the system completely and rinse spray tank, boom and nozzles three times with clean water until the foam and all traces of product have been removed. After applying the cleaning procedure, 0.03 % residue was found in the refilled spray tank. Therefore, the cleaning procedure is deemed effective.

3.5.3 Effects on beneficial and other non-target organisms (KCP 6.5.3)

Syngenta comment	No new data are provided for the purpose of this National Addendum. The zonal assessment stays valid.
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Detailed studies on the possible adverse effects to beneficial organisms are submitted and summarised in Part B, Section 9 (Ecotoxicology) of the draft registration report and are considered adequate. Please refer to Annex point 9.7 'Effects on arthropods other than bees' and Annex point 9.8 'Effects on non-target soil meso- and macrofauna' of the dossier, for a full description of safety to beneficial organisms (other than bees).

A12916B features an excellent profile with regards to safety to beneficial arthropods and non-target organisms such as earthworms. No specific assessments of beneficial and non-target organisms were taken in the efficacy trials. However, no adverse effects were noted when visual observations were made within these field trial sites.

No new data on risk to succeeding crops, adjacent crops, beneficial organisms, or non-target arthropods are provided in this submission. No further data are required for this submission, and the zonal assessment remains valid. A12916B is not expected to have an adverse effect on these areas when applied according to the current label claims.

3.5.4 Summary and conclusion

When applied in accordance with the uses supported in this submission, A12916B would not be expected to have an adverse effect to succeeding crops, adjacent crops and beneficial organisms and non-target arthropods.

3.6 Other/special studies

No data from other studies are submitted.

3.7 List of test facilities including the corresponding certificates

Syngenta comment	For the purpose of this National Addendum the chapter is supplemented with test facilities from 2020-2023. New text and data are highlighted in green.
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The following table gives information about the testing facilities where trials were done. All facilities are certified and the trials conducted according to GEP.

The corresponding certificates are available in the GEP Certificate Database System (Certibase) (<http://www.gepcertibase.eu>) via the hyperlinks provided in the table below.

Table 3.7-1: List of test facilities

Test facility	Country	Number of trials							GEP certification		
		2018	2019	2020	2021	2022	2023	Total	Valid From	Valid To	Link
Acceres Field Research Germany GmbH					1			1			Merged with SynTech Research Germany GmbH in 2021 (see below)
Agri 2000 Hellas	Greece	1						1	01/01/17	31/12/20	1d65219316f
AGRI 2000 NET S.R.L	Italy	3						3	03/05/18	03/05/20	1d652193256
Agricultura y Ensayo S.L., Alcalá de Guadaira, Spain	Spain	2	3					5	16/02/16	16/02/21	1d6521930a7
AGROBIOTEST d.o.o.	Croatia		2					2	25/03/14	24/03/19	1d652192ea0 1d652193217
AGROBLU ROMANIA SRL	Romania	1						1	13/04/16	13/04/21	1d6521ab8e7
Agrofil-SZMI Kft.	Hungary	2						2	24/03/17	23/03/22	1d65219312f
Agrolab DK	Denmark	1						1	01/01/14	01/01/20	1d652149be8
	Latvia	1						1			
Agrolab RDS	Greece	1						1	30/05/17	31/12/20	1d652193151
AgroProspect SRL	Romania		1					1	08/01/18	08/01/23	1d6521ab822
AgroResearch Sp. z o.o.	Poland		2					2	21/12/12	31/12/00	1d6535509ef
AgroUnit	Greece		2					2	01/01/17	31/12/20	1d6521931d0
Anadiag Bulgaria I.t.d	Bulgaria	1						1	15/05/13	15/05/18	1d652192df3
Anadiag France	France	2						2	09/10/17	08/10/22	1d6521ab856
Anadiag Iberica, Gualta, Spain	Spain	1						1	18/07/17	18/07/22	1d6521ab804
Antedis France	France	1						1	22/03/16	22/03/21	1d6521ab7eb
Astria 64 SARL	France		1					1	02/04/18	01/04/23	1d6521ab85e
BioChem Agrar Sp. z o.o	Poland	5			4			5+4	23/04/15 06/04/2023	31/12/00 (-)	1d65219308d Jym2yVKNV0
BioChem Agrar, Gerichshain, Germany	Germany				1			1	21/03/2024	20/03/2029	BL9pqE3pGA
BioChem agrar Agroplan, Uedem, Germany	Germany				2			2	18/11/2020	30/11/2025	lqPpwD72gD
BioteK Agriculture	France	4	3					7	17/01/16	16/09/19	1d652149d6a
BioteK Francoro Agriculture	Romania	1						1	27/02/14	27/02/19	1d6521ab763
Blumeria Consulting	Slovakia		1			2		1+2	20/06/16	20/06/21	1d6521930b9
									20/06/2021	20/06/2026	wzE4z78pql
Crop-Plot trials	Ireland	2						2	01/01/19	31/12/19	1d653550de2
Crop Research Institute	Czech						1	1	08/03/2022	07/03/2027	3Map8VoNvr

Test facility	Country	Number of trials							GEP certification		
		2018	2019	2020	2021	2022	2023	Total	Valid From	Valid To	Link
Prague, Praha,	Republic										
DevReg Consulta slu	Spain	1						1	13/04/16	13/04/21	1d652149dd5
Ditana spol. s r. o.	Czech Republic					1	1	2	21/04/2021	-	http://gepcertibase.eu/certificate/download/1d69312cf03
Estonian Crop Research Institute	Estonia	1						1	(-)	(-)	GEP accreditation reference: 3
Eurofins Agroscience Services Spain	Spain	3						3	06/07/18	06/07/23	1d6521ab8e9
Essais Plus	France	3	2					5	17/02/14	17/02/19	1d652149b7a
Eurofins Agroscience Services EOOD	Bulgaria	3						3	28/05/15	28/05/25	1d6521ab6a1
Eurofins Agroscience Services Kft	Hungary	2						2	22/10/14	22/10/19	1d652192fea
Eurofins Agroscience Services SRL	Romania	2						2	27/02/15	27/02/20	1d652192fca
Eurofins Agroscience Services SAS	France	3						3	26/04/17	23/02/19	1d652149dea
Field Research Support DE	Germany	1	2					3	03/03/16	03/03/21	1d652193102
Field Research Support PL	Poland	1		2				1+2	07/06/13	31/12/00	1d652193069
IPP-NRI Sosnowice Branch	Poland	3	1		1			4+1	16/06/10	31/12/19	1d6521ab26e
LRCFA	Lithuania	3	4					7	30/01/2020	(-)	zKoNaYBNLr
IPP-NRI Sosnowice Branch	Poland	2						2	12/12/13	12/12/19	1d653550ace
Latvian Plant Protection Research Centre	Latvia	4	5					9	16/06/10	31/12/19	1d6521ab26e
Lithuanian Institute of Agriculture (LAMMC)	Lithuania		6		1			6+1	28/09/16	27/09/21	1d6521930c6
Martin - Feldversuchswesen, Germany	Germany	1						1	12/12/13	12/12/19	1d652192f6e
Poznan University of Life Science	Poland	2						2	06/12/2021	31/12/2026	10GNJov4d3
PROMO-VERT S.A.	France	2						2	14/05/17	31/12/21	1d652193119
Qualiphyt	France	1						1	14/10/10	31/12/19	1d652192be8
Redebel SA	Belgium		4					4	30/01/17	29/01/22	1d65219314c
Research Agro 2008 s.r.o.	Slovakia		1					1	28/11/13	28/11/18	1d652192e8a
Sagea Iberia S.L.	Spain		7					7	20/01/17	20/01/22	1d652149dfd
SGS Bulgaria Ltd.	Bulgaria	1	9					10	01/02/16	24/04/21	1d6535b2878
SGS France	France	3						3	05/04/18	05/04/23	1d6521ab846
									02/11/17	02/11/27	1d6521ab7f3
									08/01/18	21/10/18	1d65219315a

Test facility	Country	Number of trials							GEP certification		
		2018	2019	2020	2021	2022	2023	Total	Valid From	Valid To	Link
SGS United Kingdom Ltd.	UK	1						1	06/07/18	06/07/23	1d6521ab8e9
Staphyt BG	Bulgaria	1						1	20/10/17	06/10/27	1d6521ab89c
Staphyt Sp. z o. o.	Poland	1						1	25/12/12	31/12/00	1d65359a07e
STAPHYT HU	Hungary	1						1	14/05/18	13/05/23	1d6521931f1
Syngenta CP DE	Germany	16	11	6	4			27+10	12/07/16	11/07/21	1d652149c91
Syngenta CP FR	France	3						3	01/10/13	01/10/18	1d652149b3b
											1d652149e85
Syngenta CP PL	Poland		2	1				2+1	25/03/14	31/12/00	1d65359a014
Syngenta HU	Hungary	1	4					5	26/08/16	26/08/21	1d652193166
Syngenta Italia SpA	Italy	2	8					10	03/12/16	03/12/18	1d652193169
Syngenta UK	UK	5	-					5	01/01/16	31/12/20	1d652149c67
Syntech Research Agrico SRL RO	Romania	1	9					10	08/01/18	08/01/22	1d653550cd4
SynTech Research France SAS	France	3	17					20	30/10/14	30/10/19	1d652149d21
SynTech Research Germany GmbH	Germany		6	2	1			6+3	26/07/16	26/07/21	1d652149cd1
SynTech Research Hungary Kft	Hungary	1	4					5	15/08/16	15/08/21	1d6521ab903
SynTech Research Poland Sp.zo.o.	Poland		14		9			14+9	27/04/15	31/12/00	1d65219300e
									13/03/2023	13/03/2028	Waj4vGpPBV
SynTech Research Spain	Spain	2	2					4	22/02/17	22/02/22	1d652149d90
Syntech UK	UK	3	8					11	03/04/15	02/04/20	1d652149d93
Teagasc	Ireland	1	2					3	01/01/90	31/12/18	1d6521ab89b
Uniwersytet Przyrodniczy w Lublinie	Poland	2						2	05/04/12	31/12/00	1d6521ab64c
VKST Field Trials, Ringsted	Denmark		4					4	01/01/14	01/01/20	1d652149be8
Zemědělská ZC Kujavy, Kujavy	Czech Republic						1	1	2016	-	http://gepcertibase.eu/certificate/download/1d6926f89c9
Zemservis ZS Domaninek, Bystřice nad Pernštejnem	Czech Republic					1		1	01/09/2021	31/08/2026	Xrw2505pEZ
Total		114	147					261+43			

Appendix 1 Lists of data considered in support of the evaluation

List of data submitted by the applicant and relied on

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.1	Bastries, S.	10/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FREUZF8062018 Document No. VV-845009 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Bastries, S.	10/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FREUZF8072018 Document No. VV-845010 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Blumeria, C.	12/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. SKNIZF7312019 Document No. VV-845118 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Botoman, C.	31/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROPRZF7352019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845106 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Burghardt, B.	12/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUHUF4372018 Document No. VV-844923 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Caballero Vaquero, V.	16/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESAYZF7122019 Document No. VV-844972 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Cagnano, M.	20/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. IT39ZF5322018 Document No. VV-844937 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Carstens, H.	22/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF1682018 Document No. VV-844882 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.1	Chesnoy, M.	02/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7112019 Document No. VV-845020 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Ciemniak, W.	23/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLFPZF1132018 Document No. VV-845027 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7962019 Document No. VV-845113 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7972019 Document No. VV-845114 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Coca, A.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROSYZF5112018 Document No. VV-845107	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7382019 Document No. VV-845110 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7982019 Document No. VV-845115 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7992019 Document No. VV-845116 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7372019 Document No. VV-845109 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			diseases in barley - field Report No. ROSYZF7392019 Document No. VV-845111 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Cwiek, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7922019 Document No. VV-845047 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Cwiek, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7932019 Document No. VV-845048 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	D Errico, M.	07/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ITSOZF0412018 Document No. VV-844942 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	D Errico, M.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2442019 Document No. VV-844945 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.1	D Errico, M.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2452019 Document No. VV-844946 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Delebarre, O.	13/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRBKZF7072019 Document No. VV-844994 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Dolezych, D.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSOZF1142018 Document No. VV-845030 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Dolezych, D.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSOZF1152018 Document No. VV-845031 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Donchev, S.	05/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. BGSTZF2522018 Document No. VV-844877 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Doyle, D.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. IETGZF7822019 Document No. VV-844933 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Doyle, D.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. IETGZF7202019 Document No. VV-844932 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Ehrenschwender, G.	08/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. DEDSZF4142018 Document No. VV-844900 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Fluchon, V.	24/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRBKZF8052018 Document No. VV-844998 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.1	Gimenez, S.	21/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7702019 Document No. VV-845025 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Gobin, C.	02/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRBKZF8062018 Document No. VV-844999 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Gomez, A.	21/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESAYZF0152018 Document No. VV-844970 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Gomez, A.	26/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESAYZF7322019 Document No. VV-844974 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Gomez, A.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESAYZF0172018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844971 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Hertelendy, P.	20/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUAFZF4382018 Document No. VV-844915 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Ivanov, A.	18/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGSGZF2512018 Document No. VV-844874 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Ivanov, A.	20/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSGZF7012019 Document No. VV-844875 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Ivanov, A.	24/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSGZF7022019 Document No. VV-844876 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.1	Kaiser, B.	25/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF1722018 Document No. VV-844883 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Kaiser, B.	13/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF1982019 Document No. VV-844884 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Kirov, P.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BGSAZF7222019 Document No. VV-844872 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Kirov, P.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7032019 Document No. VV-844867 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Kirov, P.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7052019 Document No. VV-844869	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.1	Kroehnke, J.	13/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLBCZF1292018 Document No. VV-845095 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Kussinszky, T.	07/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUEUZF4392018 Document No. VV-844921 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Le Rider, A.	27/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRANZF8012018 Document No. VV-844990 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Leger, D.	02/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7062019 Document No. VV-845019 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Lembetti, R.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			diseases in wheat - Field Report No. ITCEZF2412019 Document No. VV-844938 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Leneschi, F.	19/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROBKZF5132018 Document No. VV-845103 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Leroux, F.	24/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRSGZF8062018 Document No. VV-845017 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	MacEwan, C.	24/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GBSYZF8022019 Document No. VV-844908 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	MacEwan, C.	31/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7402019 Document No. VV-845069 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.1	Maczynska, A.	21/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLSOZF1132018 Document No. VV-845029 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Maczynska, A.	29/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSOZF7292019 Document No. VV-845033 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Maleyrat, P.	23/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7722019 Document No. VV-845051 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Menyhart, L.	04/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF5042019 Document No. VV-844926 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. BGSAZF7232019 Document No. VV-844873 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7042019 Document No. VV-844868 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7062019 Document No. VV-844870 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Olivet, X.	23/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESANZF0062018 Document No. VV-844969 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Olsen, J.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DKAVZF7682019 Document No. VV-844967 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.1	Olsen, J.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DKAVZF7692019 Document No. VV-844968 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Olsen, J.	28/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DKAVZF7032019 Document No. VV-844965 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Olsen, J.	28/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DKAVZF7042019 Document No. VV-844966 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Paduraru, C.	07/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ROEUZF5082018 Document No. VV-845104 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Paduraru, C.	27/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROEUZF5102018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845105 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Palmieri, N.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2472019 Document No. VV-844947 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Pejka, L.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7312019 Document No. VV-845036 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Pejka, L.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7342019 Document No. VV-845039 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Pena, J.	14/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESSTZF0012018 Document No. VV-844986 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.1	Pey, A.	05/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7732019 Document No. VV-845052 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Pierrot, S.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRASZF8052018 Document No. VV-844991 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Pierrot, S.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRASZF8062018 Document No. VV-844992 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Placke, M.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DEDSZF2822019 Document No. VV-844885 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Placke, M.	06/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF2972018 Document No. VV-844889	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.1	Potocka, E.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7942019 Document No. VV-845049 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Potocka, E.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7322019 Document No. VV-845037 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Prisco, A.	03/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITNOZF2402019 Document No. VV-844940 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Prisco, A.	12/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ITNOZF0402018 Document No. VV-844939 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Prisco, A.	03/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			diseases in barley - field Report No. ITNOZF2462019 Document No. VV-844941 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Raue, C.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DESYZF7782019 Document No. VV-844959 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Raue, C.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DESYZF7792019 Document No. VV-844960 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Reynens, P.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BERDZF7662019 Document No. VV-844861 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Reynens, P.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BERDZF7672019 Document No. VV-844862 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.1	Reynens, P.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BERDZF7012019 Document No. VV-844859 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Reynens, P.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BERDZF7022019 Document No. VV-844860 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Riccardo, S.	29/06/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. IT39ZF5302018 Document No. VV-844935 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Riccardo, S.	01/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. IT39ZF5312018 Document No. VV-844936 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Rubio, A.	10/10/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. ESDVZF0032018 Document No. VV-844975 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVALZF1072018 Document No. VV-845083 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVALZF1092018 Document No. VV-845084 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVLVZF1082018 Document No. VV-845085 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Sawinska, Z.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLUPZF1092018 Document No. VV-845099 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.1	Sawinska, Z.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLUPZF1102018 Document No. VV-845100 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Sawinska, Z.	24/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLUPZF1112018 Document No. VV-845101 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Siegert, E.	23/10/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. DEDSZF3132018 Document No. VV-844892 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Sikora, M.	27/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLBCZF1282018 Document No. VV-845094 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Sikora, M.	27/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLBCZF1302018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845096 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7912019 Document No. VV-845046 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7302019 Document No. VV-845035 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Sumner, K. Sumner, K.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. GBSRZF9042018 Document No. VV-845066 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Takacs, A.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF5032019 Document No. VV-844925 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.1	Takacs, A.	30/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF9022019 Document No. VV-844927 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Terhalle, S.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF2832018 Document No. VV-844886 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Treikale, O.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7842019 Document No. VV-845088 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Treikale, O.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7852019 Document No. VV-845089 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Treikale, O.	13/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LVRIZF7212019 Document No. VV-845086	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.1	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESEUZF0032018 Document No. VV-844976 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESEUZF0052018 Document No. VV-844978 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Varga, A.	21/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. HUCPZF7072019 Document No. VV-844917 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Vere, G.	03/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRQUZF8092018 Document No. VV-845015 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			diseases in barley - field Report No. LTAKZF7222019 Document No. VV-844951 Test Facility Syngenta GEP Unpublished		
KCP 6.1	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7232019 Document No. VV-844952 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Villanyi, M.	30/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUSTZF4402018 Document No. VV-844928 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Vivet, V.	27/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7772019 Document No. VV-845056 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Vourkous, F.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. BGANZF2462018 Document No. VV-844863 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.1	Wronkowski, T.	25/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSTZF1072018 Document No. VV-845034 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Yanev, N.	20/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. BGEUZF2472018 Document No. VV-844864 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Zlatarev, R.	14/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGEUZF2492018 Document No. VV-844865 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.1	Zlatarev, R.	14/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGEUZF2502018 Document No. VV-844866 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Bastries, S.	10/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. FREUZF8062018 Document No. VV-845009 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Bastries, S.	10/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FREUZF8072018 Document No. VV-845010 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Beaufort, M.	03/12/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FRMBZF8202018 Document No. VV-845012 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Blumeria, C.	12/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. SKNIZF7312019 Document No. VV-845118 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Bordes, Y.	03/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on oat- Field Report No. FRPVZF8152018 Document No. VV-845013 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Botoman, C.	31/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROPRZF7352019 Document No. VV-845106 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Brasiles, V.	12/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on triticale- Field Report No. FRSYZF8192018 Document No. VV-845059 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Burghardt, B.	12/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUHUF4372018 Document No. VV-844923 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Burghardt, N.	10/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. HUHUF4822019 Document No. VV-844924 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Cagnano, M.	20/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. IT39ZF5322018 Document No. VV-844937	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.2	Carstens, H.	11/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF1272019 Document No. VV-844881 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Carstens, H.	22/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF1682018 Document No. VV-844882 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Catini, G.	15/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROAUZF5122018 Document No. VV-845102 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Chesnoy, M.	02/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7112019 Document No. VV-845020 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Ciemniak, W.	23/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			wheat - Field Report No. PLFPZF1132018 Document No. VV-845027 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Ciupa-Wylezalek, B.	29/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLSOZF1122018 Document No. VV-845028 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Clement, O.	28/07/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FRCOZF8172018 Document No. VV-845003 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7952019 Document No. VV-845112 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7962019 Document No. VV-845113 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.2	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7972019 Document No. VV-845114 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coca, A.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROSYZF5112018 Document No. VV-845107 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7362019 Document No. VV-845108 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7382019 Document No. VV-845110 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7982019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845115 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7992019 Document No. VV-845116 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7372019 Document No. VV-845109 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7392019 Document No. VV-845111 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Conde, G.	04/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESAYZF7132019 Document No. VV-844973 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Cwiek, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7922019 Document No. VV-845047 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Cwiek, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7932019 Document No. VV-845048 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	D Errico, M.	07/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ITSOZF0412018 Document No. VV-844942 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	D Errico, M.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2442019 Document No. VV-844945 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	D Errico, M.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2452019 Document No. VV-844946	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.2	Delebarre, O.	13/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRBKZF7072019 Document No. VV-844994 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Dilworth, D.	19/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. IECPPZF9042018 Document No. VV-844930 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Dilworth, D.	19/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. IECPPZF9052018 Document No. VV-844931 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Dolezych, D.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSOZF1142018 Document No. VV-845030 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Dolezych, D.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSOZF1152018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845031 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Donchev, S.	05/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGSTZF2522018 Document No. VV-844877 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Doyle, D.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. IETGZF7822019 Document No. VV-844933 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Doyle, D.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. IETGZF7202019 Document No. VV-844932 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Doyle, D.	02/11/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. IETGZF9052018 Document No. VV-844934 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Ehrenschwender, G.	08/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			wheat - Field Report No. DEDSZF4142018 Document No. VV-844900 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Ehrenschwender, G.	01/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF4132018 Document No. VV-844899 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Fluchon, V.	24/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRBKZF8052018 Document No. VV-844998 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Fluchon, V.	13/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRBKZF7102019 Document No. VV-844995 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gardiner, S.	31/12/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GB26ZF2012018 Document No. VV-845060 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.2	Gardiner, S.	31/12/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. GB27ZF2012018 Document No. VV-845062 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gardiner, S.	31/12/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. GB30ZF2012018 Document No. VV-845064 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gendron, A.	10/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on oat- Field Report No. FREUZF8222018 Document No. VV-845011 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gerome, O.	27/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRSGZF8072018 Document No. VV-845018 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gimenez, S.	21/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7702019 Document No. VV-845025	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.2	Gobin, C.	02/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRBKZF8062018 Document No. VV-844999 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gobin, C.	01/08/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FRBKZF8072018 Document No. VV-845000 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gomez, A.	21/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESAYZF0152018 Document No. VV-844970 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gomez, A.	26/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESAYZF7322019 Document No. VV-844974 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Gomez, A.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. ESAYZF0172018 Document No. VV-844971 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Griehl, T.	10/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF3502019 Document No. VV-844893 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Griehl, T.	30/08/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF3612018 Document No. VV-844897 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Hertelendy, P.	20/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUAFZF4382018 Document No. VV-844915 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Hertelendy, P.	20/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. HUAFZF4422018 Document No. VV-844916 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Ivanov, A.	18/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGSGZF2512018 Document No. VV-844874 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Ivanov, A.	20/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSGZF7012019 Document No. VV-844875 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Ivanov, A.	24/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSGZF7022019 Document No. VV-844876 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Jovic, M.	17/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticales - field Report No. DESYZF9082019 Document No. VV-844962 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Jovic, M.	03/07/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. DESYZF7462019 Document No. VV-844957	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.2	Kaiser, B.	25/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF1722018 Document No. VV-844883 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kaiser, B.	13/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF1982019 Document No. VV-844884 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kirov, P.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BGSAZF7222019 Document No. VV-844872 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kirov, P.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7032019 Document No. VV-844867 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kirov, P.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			diseases in barley - field Report No. BGSZAF7052019 Document No. VV-844869 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Koltsidas, G.	14/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GRUNZF7242019 Document No. VV-844911 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Krinis, D.	04/06/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GRALZF3212018 Document No. VV-844910 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kroehnke, J.	13/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLBCZF1292018 Document No. VV-845095 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Krueger, D.	15/10/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF9372018 Document No. VV-844904 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.2	Krueger, D.	18/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DEDSZF9292019 Document No. VV-844903 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kuhle, B.	16/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF1262019 Document No. VV-844879 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kussinszky, T.	07/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUEUZF4392018 Document No. VV-844921 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Kussinszky, T.	01/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. HUEUZF4432018 Document No. VV-844922 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Le Rider, A.	27/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRANZF8012018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844990 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Leger, D.	02/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7062019 Document No. VV-845019 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Lembetti, R.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITCEZF2412019 Document No. VV-844938 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Leneschi, F.	19/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROBKZF5132018 Document No. VV-845103 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Leroux, F.	24/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRSGZF8062018 Document No. VV-845017 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Leste-Lasserre, L.	25/06/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRATZF7132019 Document No. VV-844993 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Lorinczne Izsanyi, G.	21/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUCPZF7292019 Document No. VV-844920 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	MacEwan, C.	24/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GBSYZF8022019 Document No. VV-844908 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	MacEwan, C.	31/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7402019 Document No. VV-845069 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	MacEwan, C.	27/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. GBSYZF7492019 Document No. VV-845072	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.2	Maczynska, A.	21/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLSOZF1132018 Document No. VV-845029 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Maczynska, A.	29/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSOZF7292019 Document No. VV-845033 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Maleyrat, P.	23/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7722019 Document No. VV-845051 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Maleyrat, P.	23/08/2019	FDRY01 A12916 Formulation change Efficacy testing against foliar diseases in rye field Report No. FRSYZF7562019 Document No. VV-845024 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Martin, T.	29/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye-	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Field Report No. DEFMZF1032018 Document No. VV-844905 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Menyhart, L.	04/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF5042019 Document No. VV-844926 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Merayo Alba, H.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7332019 Document No. VV-844982 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Merayo Alba, H.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7342019 Document No. VV-844983 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Merayo Alba, H.	28/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7352019 Document No. VV-844984 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.2	Merayo Alba, H.	25/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESSAZF7142019 Document No. VV-844979 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Merayo Alba, H.	30/05/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESSAZF7152019 Document No. VV-844980 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Merayo Alba, H.	19/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESSAZF7162019 Document No. VV-844981 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Merz, D.	24/10/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF5222018 Document No. VV-844901 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Merz, D.	23/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF5222019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844902 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Mesange, C.	31/12/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. FRCMZF8262018 Document No. VV-845002 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BGSAZF7232019 Document No. VV-844873 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7042019 Document No. VV-844868 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7062019 Document No. VV-844870 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Mitev, A.	27/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye -	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			field Report No. BGSZAF7192019 Document No. VV-844871 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Olivet, X.	23/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESANZF0062018 Document No. VV-844969 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Olsen, J.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DKAVZF7682019 Document No. VV-844967 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Olsen, J.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DKAVZF7692019 Document No. VV-844968 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Olsen, J.	28/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DKAVZF7032019 Document No. VV-844965 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.2	Olsen, J.	28/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DKAVZF7042019 Document No. VV-844966 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Oriol, B.	05/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7122019 Document No. VV-845021 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Paduraru, C.	07/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ROEUZF5082018 Document No. VV-845104 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Paduraru, C.	27/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROEUZF5102018 Document No. VV-845105 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Palmieri, N.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. ITSOZF2432019 Document No. VV-844944 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Palmieri, N.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2472019 Document No. VV-844947 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Pejka, L.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7312019 Document No. VV-845036 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Pejka, L.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7342019 Document No. VV-845039 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Pejka, L.	20/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7632019 Document No. VV-845043 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.2	Pejka, L.	20/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7642019 Document No. VV-845044 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Pena, J.	14/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESSTZF0012018 Document No. VV-844986 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Perez, E.	20/09/2019	FDRY01 A12916 Formulation change Efficacy testing against foliar diseases in rye field Report No. ESSYZF7552019 Document No. VV-844988 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Perez, E.	20/09/2019	FDRY01 A12916 Formulation change Efficacy testing against foliar diseases in rye field Report No. ESSYZF7572019 Document No. VV-844989 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Pey, A.	05/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7732019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845052 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Pierrot, S.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRASZF8052018 Document No. VV-844991 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Pierrot, S.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRASZF8062018 Document No. VV-844992 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Piotrowski, G.	19/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticales - field Report No. PLSYZF7542019 Document No. VV-845041 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Placke, M.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DEDSZF2822019 Document No. VV-844885 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Placke, M.	06/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF2892018 Document No. VV-844888 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Placke, M.	06/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF2972018 Document No. VV-844889 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Potocka, E.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7942019 Document No. VV-845049 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Potocka, E.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7322019 Document No. VV-845037 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Pratt, B.	13/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. GBSRZF9082018 Document No. VV-845068 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.2	Prisco, A.	03/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITNOZF2402019 Document No. VV-844940 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Prisco, A.	12/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ITNOZF0402018 Document No. VV-844939 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Prisco, A.	03/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITNOZF2462019 Document No. VV-844941 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Raue, C.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DESYZF7782019 Document No. VV-844959 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Raue, C.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DESYZF7792019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844960 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Raue, C.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticales - field Report No. DESYZF9072019 Document No. VV-844961 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Raue, C.	23/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DESYZF7612019 Document No. VV-844958 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Reynens, P.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BERDZF7672019 Document No. VV-844862 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Reynens, P.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BERDZF7672019 Document No. VV-844862 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Reynens, P.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BERDZF7012019 Document No. VV-844859 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Reynens, P.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BERDZF7022019 Document No. VV-844860 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Riccardo, S.	29/06/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. IT39ZF5302018 Document No. VV-844935 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Riccardo, S.	01/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. IT39ZF5312018 Document No. VV-844936 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Rivet, J.	13/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FREPZF8062018 Document No. VV-845007 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.2	Rivet, J.	13/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FREPZF7082019 Document No. VV-845004 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Rivet, J.	13/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. FREPZF8052018 Document No. VV-845006 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Rivet, J.	09/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FREPZF8072018 Document No. VV-845008 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Robin, B.	26/07/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7762019 Document No. VV-845055 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Royer, A.	19/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRSGZF8052018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845016 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Rubio, A.	10/10/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESDVZF0032018 Document No. VV-844975 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Ruja, E.	21/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. LVALZF1062018 Document No. VV-845082 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVALZF1072018 Document No. VV-845083 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVALZF1092018 Document No. VV-845084 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVLVZF1082018 Document No. VV-845085 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sambolek, H.	22/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. HRATZF7212019 Document No. VV-844914 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sawinska, Z.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLUPZF1092018 Document No. VV-845099 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sawinska, Z.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLUPZF1102018 Document No. VV-845100 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sawinska, Z.	24/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLUPZF1112018 Document No. VV-845101	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.2	Selig, M.	24/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field Report No. DEFZZF1182018 Document No. VV-844906 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Siebert, E.	23/10/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. DEDSZF3132018 Document No. VV-844892 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Siebert, E.	25/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DEDSZF3062019 Document No. VV-844890 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sikora, M.	27/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLBCZF1282018 Document No. VV-845094 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sikora, M.	27/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			barley- Field Report No. PLBCZF1302018 Document No. VV-845096 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Sikora, M.	27/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLBCZF1312018 Document No. VV-845097 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Somody, G.	16/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUCPZF7282019 Document No. VV-844919 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Spiridon, A.	28/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GRAIZF3202018 Document No. VV-844909 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7912019 Document No. VV-845046 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.2	Springer, M.	19/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticales - field Report No. PLSYZF7532019 Document No. VV-845040 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7302019 Document No. VV-845035 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7332019 Document No. VV-845038 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Springer, M.	20/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7622019 Document No. VV-845042 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Stubner, B.	30/10/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticales - field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. DEDSZF3702019 Document No. VV-844898 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Stuttard, M.	31/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7422019 Document No. VV-845071 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sumner, K. Sumner, K.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. GBSRZF9042018 Document No. VV-845066 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Sumner, K. Sumner, K.	07/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. GBSRZF9072018 Document No. VV-845067 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Switkowski, M.	31/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7652019 Document No. VV-845045 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Tabutin, B.	30/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on triticale- Field Report No. FRSYZF8182018 Document No. VV-845058 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Takacs, A.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF5032019 Document No. VV-844925 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Takacs, A.	30/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF9022019 Document No. VV-844927 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Terhalle, S.	10/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF2882018 Document No. VV-844887 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Terhalle, S.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF2832018 Document No. VV-844886 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.2	Terzieff, F.	23/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field Report No. FRPVZF8182018 Document No. VV-845014 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Tessoit, O.	29/06/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. FRBKZF8042018 Document No. VV-844997 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Thibault, A.	20/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7742019 Document No. VV-845053 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Thivat, L.	19/09/2019	FDTR01 : A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. FRSYZF7512019 Document No. VV-845023 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Thivat, L.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field Report No. FRSYZF8172018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845057 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Treikale, O.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7842019 Document No. VV-845088 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Treikale, O.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7852019 Document No. VV-845089 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Treikale, O.	13/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LVRIZF7212019 Document No. VV-845086 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Trela, J.	27/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field FINAL Report No. PLSOZF1162018 Document No. VV-845032 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2	Urquhart, B.	18/12/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GB26ZF2022018 Document No. VV-845061 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Urquhart, B.	18/12/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. GB27ZF2022018 Document No. VV-845063 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Vadasz, Z.	10/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. HUSYZF4412018 Document No. VV-844929 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESEUZF0032018 Document No. VV-844976 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESEUZF0042018 Document No. VV-844977 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.2	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESEUZF0052018 Document No. VV-844978 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Varga, A.	21/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. HUCPZF7072019 Document No. VV-844917 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Varga, A.	21/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. HUCPZF7112019 Document No. VV-844918 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Vere, G.	03/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRQUZF8092018 Document No. VV-845015 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Verikaite, K.	22/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. LTAKZF1132018 Document No. VV-844948 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Verikaite, K.	23/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LTAKZF1142018 Document No. VV-844949 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Verikaite, K.	23/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LTAKZF1152018 Document No. VV-844950 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7222019 Document No. VV-844951 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7232019 Document No. VV-844952 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.2	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7242019 Document No. VV-844953 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7252019 Document No. VV-844954 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Villanyi, M.	30/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUSTZF4402018 Document No. VV-844928 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Vivet, V.	27/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7772019 Document No. VV-845056 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Vourkous, F.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. BGANZF2462018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844863 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Wahren, C.	22/07/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticales - field Report No. DEFZZF9092019 Document No. VV-844956 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Wardill, C.	20/08/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. GBSGZF9032018 Document No. VV-845065 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Weiss, E.	28/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. DEFZZF7452019 Document No. VV-844955 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Wronkowski, T.	25/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSTZF1072018 Document No. VV-845034 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Wyrostek, J.	31/12/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			barley- Field Report No. PLULZF1022018 Document No. VV-845050 Test Facility Syngenta GEP Unpublished		
KCP 6.2	Wysmulek, A.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7262019 Document No. VV-845091 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Yanev, N.	20/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. BGEUZF2472018 Document No. VV-844864 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Zlatarev, R.	14/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGEUZF2492018 Document No. VV-844865 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.2	Zlatarev, R.	14/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGEUZF2502018 Document No. VV-844866 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.4.1	Bastries, S.	10/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FREUZF8062018 Document No. VV-845009 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Bastries, S.	10/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FREUZF8072018 Document No. VV-845010 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Beaufort, M.	03/12/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FRMBZF8202018 Document No. VV-845012 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Blumeria, C.	12/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. SKNIZF7312019 Document No. VV-845118 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Bordes, Y.	03/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on oat-Field Report No. FRPVZF8152018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845013 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Botoman, C.	31/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROPRZF7352019 Document No. VV-845106 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Brasiles, V.	12/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on triticale- Field Report No. FRSYZF8192018 Document No. VV-845059 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Burghardt, B.	12/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUHUF4372018 Document No. VV-844923 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Burghardt, N.	10/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. HUHUF4822019 Document No. VV-844924 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.1	Caballero Vaquero, V.	16/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESAYZF7122019 Document No. VV-844972 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Cagnano, M.	20/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. IT39ZF5322018 Document No. VV-844937 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Carriou, S.	12/09/2019	FDTR01 : A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. FRBKZF7522019 Document No. VV-844996 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Carstens, H.	11/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF1272019 Document No. VV-844881 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Carstens, H.	22/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF1682018 Document No. VV-844882	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Catini, G.	15/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROAUZF5122018 Document No. VV-845102 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Chesnoy, M.	02/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7112019 Document No. VV-845020 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Chesnoy, M.	04/09/2019	FDOT01 : A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. FRSYZF7432019 Document No. VV-845022 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ciemniak, W.	23/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLFPZF1132018 Document No. VV-845027 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ciupa-Wylezalek, B.	29/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			wheat - Field Report No. PLSOZF1122018 Document No. VV-845028 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Clement, O.	28/07/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FRCOZF8172018 Document No. VV-845003 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7952019 Document No. VV-845112 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7962019 Document No. VV-845113 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7972019 Document No. VV-845114 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Coca, A.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROSYZF5112018 Document No. VV-845107 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7362019 Document No. VV-845108 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coca, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7382019 Document No. VV-845110 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7982019 Document No. VV-845115 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ROSYZF7992019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845116 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7372019 Document No. VV-845109 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Coman, M.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ROSYZF7392019 Document No. VV-845111 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Conde, G.	04/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESAYZF7132019 Document No. VV-844973 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Cwiek, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7922019 Document No. VV-845047 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.1	Cwiek, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7932019 Document No. VV-845048 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	D Asero, R.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITSOZF2422019 Document No. VV-844943 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	D Errico, M.	07/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ITSOZF0412018 Document No. VV-844942 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	D Errico, M.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2442019 Document No. VV-844945 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	D Errico, M.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2452019 Document No. VV-844946	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Delebarre, O.	13/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRBKZF7072019 Document No. VV-844994 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Dilworth, D.	19/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. IECPPZF9042018 Document No. VV-844930 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Dilworth, D.	19/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. IECPPZF9052018 Document No. VV-844931 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Dolezych, D.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSOZF1142018 Document No. VV-845030 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Dolezych, D.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLSOZF1152018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845031 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Donchev, S.	05/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGSTZF2522018 Document No. VV-844877 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Doyle, D.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. IETGZF7822019 Document No. VV-844933 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Doyle, D.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. IETGZF7202019 Document No. VV-844932 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Doyle, D.	02/11/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. IETGZF9052018 Document No. VV-844934 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ehrenschwender, G.	08/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			wheat - Field Report No. DEDSZF4142018 Document No. VV-844900 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Ehrenschwender, G.	01/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF4132018 Document No. VV-844899 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Fluchon, V.	24/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRBKZF8052018 Document No. VV-844998 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Fluchon, V.	13/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRBKZF7102019 Document No. VV-844995 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gardiner, S.	31/12/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GB26ZF2012018 Document No. VV-845060 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Gardiner, S.	31/12/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. GB27ZF2012018 Document No. VV-845062 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gardiner, S.	31/12/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. GB30ZF2012018 Document No. VV-845064 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gendron, A.	10/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on oat- Field Report No. FREUZF8222018 Document No. VV-845011 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gerome, O.	27/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRSGZF8072018 Document No. VV-845018 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gimenez, S.	21/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7702019 Document No. VV-845025	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Gimenez, S.	22/07/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7712019 Document No. VV-845026 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gobin, C.	02/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRBKZF8062018 Document No. VV-844999 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gobin, C.	01/08/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FRBKZF8072018 Document No. VV-845000 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gomez, A.	21/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESAYZF0152018 Document No. VV-844970 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Gomez, A.	26/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. ESAYZF7322019 Document No. VV-844974 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Gomez, A.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESAYZF0172018 Document No. VV-844971 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Griehl, T.	10/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DEDSZF3542019 Document No. VV-844895 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Griehl, T.	29/08/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF3582018 Document No. VV-844896 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Griehl, T.	10/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF3502019 Document No. VV-844893 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.1	Griehl, T.	30/08/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF3612018 Document No. VV-844897 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Griehl, T.	10/10/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DEDSZF3522019 Document No. VV-844894 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Hertelendy, P.	20/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUAFZF4382018 Document No. VV-844915 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Hertelendy, P.	20/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. HUAFZF4422018 Document No. VV-844916 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ivacic, D.	22/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. HRATZF7202019 Document No. VV-844913 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.4.1	Ivanov, A.	18/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGSGZF2512018 Document No. VV-844874 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ivanov, A.	20/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSGZF7012019 Document No. VV-844875 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ivanov, A.	24/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSGZF7022019 Document No. VV-844876 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Jovic, M.	17/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. DESYZF9082019 Document No. VV-844962 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Jovic, M.	03/07/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. DESYZF7462019 Document No. VV-844957 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Kaiser, B.	25/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF1722018 Document No. VV-844883 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Kaiser, B.	13/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF1982019 Document No. VV-844884 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Kirov, P.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BGSAZF7222019 Document No. VV-844872 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Kirov, P.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7032019 Document No. VV-844867 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Kirov, P.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSZAF7052019 Document No. VV-844869 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Koltsidas, G.	14/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GRUNZF7242019 Document No. VV-844911 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Koltsidas, G.	14/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GRUNZF7252019 Document No. VV-844912 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Krinis, D.	04/06/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GRALZF3212018 Document No. VV-844910 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Kroehnke, J.	13/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLBCZF1292018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845095 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Kroehnke, J.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field FINAL Report No. PLBCZF1322018 Document No. VV-845098 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Krueger, D.	15/10/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF9372018 Document No. VV-844904 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Krueger, D.	18/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DEDSZF9292019 Document No. VV-844903 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Kuhle, B.	22/10/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF1262018 Document No. VV-844878 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Kuhle, B.	16/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. DEDSZF1262019 Document No. VV-844879 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Kussinszky, T.	07/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUEUZF4392018 Document No. VV-844921 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Kussinszky, T.	01/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. HUEUZF4432018 Document No. VV-844922 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Le Rider, A.	27/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRANZF8012018 Document No. VV-844990 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Leger, D.	03/09/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7752019 Document No. VV-845054 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Leger, D.	02/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7062019 Document No. VV-845019 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Lembetti, R.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITCEZF2412019 Document No. VV-844938 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Leneschi, F.	19/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROBKF5132018 Document No. VV-845103 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Leroux, F.	24/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRSGZF8062018 Document No. VV-845017 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Leste-Lasserre, L.	25/06/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRATZF7132019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844993 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Lorinczne Izsanyi, G.	21/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUCPZF7292019 Document No. VV-844920 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	MacEwan, C.	24/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GBSYZF8022019 Document No. VV-844908 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	MacEwan, C.	31/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7402019 Document No. VV-845069 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	MacEwan, C.	27/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. GBSYZF7492019 Document No. VV-845072 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.1	MacEwan, C.	07/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. GBSYZF7502019 Document No. VV-845073 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Maczynska, A.	21/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLSOZF1132018 Document No. VV-845029 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Maczynska, A.	29/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSOZF7292019 Document No. VV-845033 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Maleyrat, P.	23/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7722019 Document No. VV-845051 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Maleyrat, P.	23/08/2019	FDRY01 A12916 Formulation change Efficacy testing against foliar diseases in rye field Report No. FRSYZF7562019 Document No. VV-845024	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Martin, T.	29/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field Report No. DEFMZF1032018 Document No. VV-844905 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Menyhart, L.	04/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF5042019 Document No. VV-844926 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Merayo Alba, H.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7332019 Document No. VV-844982 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Merayo Alba, H.	30/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7342019 Document No. VV-844983 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Merayo Alba, H.	28/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			diseases in wheat - Field Report No. ESSAZF7352019 Document No. VV-844984 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Merayo Alba, H.	03/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7362019 Document No. VV-844985 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Merayo Alba, H.	25/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESSAZF7142019 Document No. VV-844979 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Merayo Alba, H.	30/05/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESSAZF7152019 Document No. VV-844980 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Merayo Alba, H.	19/06/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESSAZF7162019 Document No. VV-844981 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.4.1	Merz, D.	24/10/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF5222018 Document No. VV-844901 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Merz, D.	23/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DEDSZF5222019 Document No. VV-844902 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Mesange, C.	31/12/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. FRCMZF8262018 Document No. VV-845002 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Meszaros, A.	23/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. SKAFZF7302019 Document No. VV-845117 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BGSAZF7232019 Document No. VV-844873	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7042019 Document No. VV-844868 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Mitev, A.	10/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BGSAZF7062019 Document No. VV-844870 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Mitev, A.	27/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. BGSAZF7192019 Document No. VV-844871 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Olivet, X.	23/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESANZF0062018 Document No. VV-844969 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Olsen, J.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			diseases in wheat - Field Report No. DKAVZF7682019 Document No. VV-844967 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Olsen, J.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DKAVZF7692019 Document No. VV-844968 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Olsen, J.	28/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DKAVZF7032019 Document No. VV-844965 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Olsen, J.	28/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. DKAVZF7042019 Document No. VV-844966 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Oriol, B.	05/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FRSYZF7122019 Document No. VV-845021 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.4.1	Paduraru, C.	07/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ROEUZF5082018 Document No. VV-845104 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Paduraru, C.	27/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ROEUZF5102018 Document No. VV-845105 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Palmieri, N.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITSOZF2432019 Document No. VV-844944 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Palmieri, N.	06/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITSOZF2472019 Document No. VV-844947 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pejka, L.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. PLSYZF7312019 Document No. VV-845036 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Pejka, L.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7342019 Document No. VV-845039 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pejka, L.	20/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7632019 Document No. VV-845043 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pejka, L.	20/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7642019 Document No. VV-845044 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pena, J.	14/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESSTZF0012018 Document No. VV-844986 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Pena, J.	14/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESSTZF0022018 Document No. VV-844987 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Perez, E.	20/09/2019	FDRY01 A12916 Formulation change Efficacy testing against foliar diseases in rye field Report No. ESSYZF7552019 Document No. VV-844988 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Perez, E.	20/09/2019	FDRY01 A12916 Formulation change Efficacy testing against foliar diseases in rye field Report No. ESSYZF7572019 Document No. VV-844989 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pey, A.	05/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7732019 Document No. VV-845052 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pierrot, S.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRASZF8052018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844991 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Pierrot, S.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FRASZF8062018 Document No. VV-844992 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Piotrowski, G.	19/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. PLSYZF7542019 Document No. VV-845041 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Placke, M.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DEDSZF2822019 Document No. VV-844885 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Placke, M.	06/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF2892018 Document No. VV-844888 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Placke, M.	06/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			barley- Field Report No. DEDSZF2972018 Document No. VV-844889 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Potocka, E.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7942019 Document No. VV-845049 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Potocka, E.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7322019 Document No. VV-845037 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pratt, B.	13/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. GBSRZF9082018 Document No. VV-845068 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Pratt, B.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7412019 Document No. VV-845070 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Prisco, A.	03/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITNOZF2402019 Document No. VV-844940 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Prisco, A.	12/10/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ITNOZF0402018 Document No. VV-844939 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Prisco, A.	03/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ITNOZF2462019 Document No. VV-844941 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Raue, C.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DESYZF7782019 Document No. VV-844959 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Raue, C.	04/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DESYZF7792019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844960 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Raue, C.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticales - field Report No. DESYZF9072019 Document No. VV-844961 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Raue, C.	23/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DESYZF7612019 Document No. VV-844958 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Reynens, P.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BERDZF7662019 Document No. VV-844861 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Reynens, P.	20/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. BERDZF7672019 Document No. VV-844862 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.1	Reynens, P.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BERDZF7012019 Document No. VV-844859 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Reynens, P.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. BERDZF7022019 Document No. VV-844860 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Riccardo, S.	29/06/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. IT39ZF5302018 Document No. VV-844935 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Riccardo, S.	01/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. IT39ZF5312018 Document No. VV-844936 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Rivet, J.	13/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. FREPZF8062018 Document No. VV-845007 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.4.1	Rivet, J.	13/09/2019	FDBA01 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. FREPZF7082019 Document No. VV-845004 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Rivet, J.	13/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. FREPZF8052018 Document No. VV-845006 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Rivet, J.	09/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. FREPZF8072018 Document No. VV-845008 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Rivet, J.	13/09/2019	FDOT01 : A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. FREPZF7442019 Document No. VV-845005 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Robin, B.	26/07/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7762019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845055 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Ronis, A.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. LTAKZF7472019 Document No. VV-845075 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ronis, A.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. LTAKZF7482019 Document No. VV-845076 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Royer, A.	19/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRSGZF8052018 Document No. VV-845016 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Rubio, A.	10/10/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. ESDVZF0032018 Document No. VV-844975 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.1	Ruja, E.	21/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. LVALZF1052018 Document No. VV-845081 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ruja, E.	21/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. LVALZF1062018 Document No. VV-845082 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVALZF1072018 Document No. VV-845083 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVALZF1092018 Document No. VV-845084 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Ruja, E.	21/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LVLVZF1082018 Document No. VV-845085	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Sambolek, H.	22/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. HRATZF7212019 Document No. VV-844914 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Sawinska, Z.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLUPZF1092018 Document No. VV-845099 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Sawinska, Z.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLUPZF1102018 Document No. VV-845100 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Selig, M.	24/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye-Field Report No. DEFZZF1182018 Document No. VV-844906 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Siegert, E.	23/10/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			wheat - Field Report No. DEDSZF3132018 Document No. VV-844892 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Siebert, E.	23/10/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF3092018 Document No. VV-844891 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Siebert, E.	25/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DEDSZF3062019 Document No. VV-844890 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Sikora, M.	27/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. PLBCZF1282018 Document No. VV-845094 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Sikora, M.	27/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLBCZF1302018 Document No. VV-845096 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Sikora, M.	27/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLBCZF1312018 Document No. VV-845097 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Skalshoi, M.	20/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. DKALZF9092018 Document No. VV-844964 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Somody, G.	16/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUCPZF7282019 Document No. VV-844919 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Spiridon, A.	28/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GRAIZF3202018 Document No. VV-844909 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. PLSYZF7912019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845046 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Springer, M.	19/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. PLSYZF7532019 Document No. VV-845040 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7302019 Document No. VV-845035 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Springer, M.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLSYZF7332019 Document No. VV-845038 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Springer, M.	20/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7622019 Document No. VV-845042 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.1	Stubner, B.	30/10/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. DEDSZF3702019 Document No. VV-844898 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Stuttard, M.	31/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7422019 Document No. VV-845071 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Sumner, K. Sumner, K.	26/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GBSYZF8002019 Document No. VV-845074 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Sumner, K. Sumner, K.	12/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GBSYZF8012019 Document No. VV-844907 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Sumner, K. Sumner, K.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. GBSRZF9042018 Document No. VV-845066	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Sumner, K. Sumner, K.	07/09/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. GBSRZF9072018 Document No. VV-845067 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Switkowski, M.	31/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. PLSYZF7652019 Document No. VV-845045 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Tabutin, B.	30/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on triticale- Field Report No. FRSYZF8182018 Document No. VV-845058 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Takacs, A.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. HUHUF5032019 Document No. VV-844925 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Takacs, A.	30/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. HUHUF9022019 Document No. VV-844927 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Terhalle, S.	10/09/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF2882018 Document No. VV-844887 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Terhalle, S.	07/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. DEDSZF2832018 Document No. VV-844886 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Terzieff, F.	23/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field Report No. FRPVZF8182018 Document No. VV-845014 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Tessoit, O.	29/06/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. FRBKZF8042018 Document No. VV-844997 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Thibault, A.	20/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			foliar diseases in wheat - Field Report No. FRSYZF7742019 Document No. VV-845053 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Thibault, A.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8212019 Document No. VV-845894 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Thivat, L.	19/09/2019	FDTR01 : A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. FRSYZF7512019 Document No. VV-845023 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Thivat, L.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye-Field Report No. FRSYZF8172018 Document No. VV-845057 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Treikale, O.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7832019 Document No. VV-845087 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Treikale, O.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7842019 Document No. VV-845088 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Treikale, O.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7852019 Document No. VV-845089 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Treikale, O.	19/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LVRIZF7862019 Document No. VV-845090 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Treikale, O.	13/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LVRIZF7212019 Document No. VV-845086 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Trela, J.	27/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field FINAL Report No. PLSOZF1162018	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845032 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Urquhart, B.	18/12/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. GB26ZF2022018 Document No. VV-845061 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Urquhart, B.	18/12/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. GB27ZF2022018 Document No. VV-845063 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Vadasz, Z.	10/08/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. HUSYZF4412018 Document No. VV-844929 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESEUZF0032018 Document No. VV-844976 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			barley- Field Report No. ESEUZF0042018 Document No. VV-844977 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Valencia, G.	18/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. ESEUZF0052018 Document No. VV-844978 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Varga, A.	21/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. HUCPZF7072019 Document No. VV-844917 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Varga, A.	21/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. HUCPZF7112019 Document No. VV-844918 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Vere, G.	03/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. FRQUZF8092018 Document No. VV-845015 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.4.1	Verikaite, K.	06/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LTAKZF7872019 Document No. VV-845077 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	20/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LTAKZF7882019 Document No. VV-845078 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	15/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LTAKZF7892019 Document No. VV-845079 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	18/11/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LTAKZF7902019 Document No. VV-845080 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	22/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. LTAKZF1132018 Document No. VV-844948 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Verikaite, K.	23/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LTAKZF1142018 Document No. VV-844949 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	23/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. LTAKZF1152018 Document No. VV-844950 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7222019 Document No. VV-844951 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7232019 Document No. VV-844952 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7242019 Document No. VV-844953 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Verikaite, K.	27/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. LTAKZF7252019 Document No. VV-844954 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Villanyi, M.	30/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. HUSTZF4402018 Document No. VV-844928 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Vivet, V.	27/08/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7772019 Document No. VV-845056 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Vivet, V.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8222019 Document No. VV-845892	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Vourkous, F.	11/09/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. BGANZF2462018 Document No. VV-844863 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Wahren, C.	22/07/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. DEFZZF9092019 Document No. VV-844956 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Wardill, C.	20/08/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. GBSGZF9032018 Document No. VV-845065 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Weiss, E.	28/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. DEFZZF7452019 Document No. VV-844955 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Wronkowski, T.	25/07/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. PLSTZF1072018 Document No. VV-845034 Test Facility Syngenta GEP Unpublished		
KCP 6.4.1	Wyrostek, J.	31/12/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. PLULZF1022018 Document No. VV-845050 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Wysmulek, A.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7262019 Document No. VV-845091 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Wysmulek, A.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7272019 Document No. VV-845092 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Wysmulek, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7282019 Document No. VV-845093 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.1	Yanev, N.	20/07/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. BGEUZF2472018 Document No. VV-844864 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Zlatarev, R.	14/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGEUZF2492018 Document No. VV-844865 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.1	Zlatarev, R.	14/06/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. BGEUZF2502018 Document No. VV-844866 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Caballero Vaquero, V.	16/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESAYZF7122019 Document No. VV-844972 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Carriou, S.	12/09/2019	FDTR01 : A12916 - Formulation change - Efficacy testing against foliar diseases in triticale - field Report No. FRBKZF7522019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-844996 Test Facility Syngenta GEP Unpublished		
KCP 6.4.2	Chesnoy, M.	04/09/2019	FDOT01 : A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. FRSYZF7432019 Document No. VV-845022 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	D Asero, R.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITSOZF2422019 Document No. VV-844943 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Doyle, D.	02/11/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. IETGZF9052018 Document No. VV-844934 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Gardiner, S.	31/12/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. GB30ZF2012018 Document No. VV-845064 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Gimenez, S.	22/07/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			foliar diseases in wheat - Field Report No. FRSYZF7712019 Document No. VV-845026 Test Facility Syngenta GEP Unpublished		
KCP 6.4.2	Griehl, T.	10/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DEDSZF3542019 Document No. VV-844895 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Griehl, T.	29/08/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF3582018 Document No. VV-844896 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Griehl, T.	10/10/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DEDSZF3522019 Document No. VV-844894 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Ivacic, D.	22/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. HRATZF7202019 Document No. VV-844913 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.2	Kroehnke, J.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye- Field FINAL Report No. PLBCZF1322018 Document No. VV-845098 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Kuhle, B.	22/10/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF1262018 Document No. VV-844878 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Leger, D.	03/09/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7752019 Document No. VV-845054 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	MacEwan, C.	07/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. GBSYZF7502019 Document No. VV-845073 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Merayo Alba, H.	03/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7362019 Document No. VV-844985	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Test Facility Syngenta GEP Unpublished		
KCP 6.4.2	Meszaros, A.	23/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. SKAFZF7302019 Document No. VV-845117 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Pratt, B.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7412019 Document No. VV-845070 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Rivet, J.	13/09/2019	FDOT01 : A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. FREPZF7442019 Document No. VV-845005 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Ronis, A.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. LTAKZF7472019 Document No. VV-845075 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Ronis, A.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat -	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			field Report No. LTAKZF7482019 Document No. VV-845076 Test Facility Syngenta GEP Unpublished		
KCP 6.4.2	Siebert, E.	23/10/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF3092018 Document No. VV-844891 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Skalshoi, M.	20/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. DKALZF9092018 Document No. VV-844964 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Sumner, K. Sumner, K.	26/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GBSYZF8002019 Document No. VV-845074 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Thibault, A.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8212019 Document No. VV-845894 Test Facility Syngenta GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.4.2	Verikaite, K.	18/11/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. LTAKZF7902019 Document No. VV-845080 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Vivet, V.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8222019 Document No. VV-845892 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Wysmulek, A.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7272019 Document No. VV-845092 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.2	Wysmulek, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7282019 Document No. VV-845093 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Caballero Vaquero, V.	16/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. ESAYZF7122019 Document No. VV-844972 Test Facility Syngenta	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished		
KCP 6.4.3	Chesnoy, M.	04/09/2019	FDOT01 : A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. FRSYZF7432019 Document No. VV-845022 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	D Asero, R.	23/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ITSOZF2422019 Document No. VV-844943 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Doyle, D.	02/11/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. IETGZF9052018 Document No. VV-844934 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Gardiner, S.	31/12/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Report No. GB30ZF2012018 Document No. VV-845064 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Gimenez, S.	22/07/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7712019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845026 Test Facility Syngenta GEP Unpublished		
KCP 6.4.3	Griehl, T.	10/10/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. DEDSZF3542019 Document No. VV-844895 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Griehl, T.	29/08/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF3582018 Document No. VV-844896 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Griehl, T.	10/10/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. DEDSZF3522019 Document No. VV-844894 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Ivacic, D.	22/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in rye - field Report No. HRATZF7202019 Document No. VV-844913 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Kroehnke, J.	13/09/2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on rye-	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Field FINAL Report No. PLBCZF1322018 Document No. VV-845098 Test Facility Syngenta GEP Unpublished		
KCP 6.4.3	Kuhle, B.	22/10/2018	PR - A7867A - Efficacy trials against foliar diseases on wheat - Field Report No. DEDSZF1262018 Document No. VV-844878 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Leger, D.	03/09/2019	FDWH12 : A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. FRSYZF7752019 Document No. VV-845054 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	MacEwan, C.	07/08/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. GBSYZF7502019 Document No. VV-845073 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Merayo Alba, H.	03/07/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. ESSAZF7362019 Document No. VV-844985 Test Facility Syngenta GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished		
KCP 6.4.3	Meszaros, A.	23/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. SKAFZF7302019 Document No. VV-845117 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Pratt, B.	03/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. GBSYZF7412019 Document No. VV-845070 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Rivet, J.	13/09/2019	FDOT01 : A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. FREPZF7442019 Document No. VV-845005 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Ronis, A.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. LTAKZF7472019 Document No. VV-845075 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Ronis, A.	04/09/2019	A12916 - Formulation change - Efficacy testing against foliar diseases in oat - field Report No. LTAKZF7482019	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Document No. VV-845076 Test Facility Syngenta GEP Unpublished		
KCP 6.4.3	Siegert, E.	23/10/2018	PR - A7867A - Efficacy testing against foliar diseases on barley - Field Report No. DEDSZF3092018 Document No. VV-844891 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Skalshoi, M.	20/08/2018	A12916B - FEX/LEX on cereals - Efficacy testing against foliar diseases on wheat - Field Report No. DKALZF9092018 Document No. VV-844964 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Sumner, K. Sumner, K.	26/08/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field Report No. GBSYZF8002019 Document No. VV-845074 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Thibault, A.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8212019 Document No. VV-845894 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Verikaite, K.	18/11/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in wheat - Field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. LTAKZF7902019 Document No. VV-845080 Test Facility Syngenta GEP Unpublished		
KCP 6.4.3	Vivet, V.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8222019 Document No. VV-845892 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Wysmulek, A.	17/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7272019 Document No. VV-845092 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.3	Wysmulek, A.	18/09/2019	A12916 (AZT+FOL) - Formulation change - Efficacy testing against foliar diseases in barley - field Report No. PLAGZF7282019 Document No. VV-845093 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.4	Baptiste, R.	23/07/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8232019 Document No. VV-845893 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.4	Thibault, A.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Report No. FRSYZF8212019 Document No. VV-845894 Test Facility Syngenta GEP Unpublished		
KCP 6.4.4	Vivet, V.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8222019 Document No. VV-845892 Test Facility Syngenta GEP Unpublished	N	SYN
KCP 6.4.5	Thibault, A.	31/12/2019	FDWH16 : A12916 - Crop safety and processing studies in wheat - field Report No. FRSYZF8212019 Document No. VV-845894 Test Facility Syngenta GEP Unpublished	N	SYN

Efficacy trials from 2020-2023

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2 KCP 6.4.1	Doreen Krüger	2020	Registration trials - A23202C (TSP-free Quadris Max) for foliar disease control in barley Syngenta Agro GmbH Report No. DEDS0F9272020	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished Syngenta file no: VV-897046		
KCP 6.2 KCP 6.4.1	Andreas Moderegger	2020	Registration trials - A23202C (TSP-free Quadris Max) for foliar disease control in barley Syngenta Agro GmbH Report No. DEDS0F4082020 GEP Unpublished Syngenta file no: VV-951514	N	SYN
KCP 6.2 KCP 6.4.1	Burkhard Stuebner	2020	Registration trials - A23202C (TSP-free Quadris Max) for foliar disease control in barley Syngenta Germany Report No. DEDS0F3742020 GEP Unpublished Syngenta file no: VV-897044	N	SYN
KCP 6.2 KCP 6.4.1	Mareike Placke	2020	Registration trials - A23202C (TSP-free Quadris Max) for foliar disease control in barley Syngenta Agro GmbH Report No. DEDS0F2892020 GEP Unpublished Syngenta file no: VV-897039	N	SYN
KCP 6.2 KCP 6.4.1	André Röhr	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on barley – Field BioChem Agrar, Gerichshain, Germany Report No. DEBCZF8532021 GEP Unpublished Syngenta file no: VV-941027	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2 KCP 6.4.1	Annette Hey	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on barley – Field BioChem agrar Agroplan, Uedem, Germany Report No. DEBCZF8512021 GEP Unpublished Syngenta file no: VV-941026	N	SYN
KCP 6.2 KCP 6.4.1	Sasa Strbac	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on barley – Field SynTech Research Germany GmbH, Christinenthal, Germany Report No. DESYZF6352021 GEP Unpublished Syngenta file no: VV-941108	N	SYN
KCP 6.2 KCP 6.4.1	Vojtech Heger	2022	Amistar, Amistar Max T2 - solution performance and comparison to competitors Zemservis ZS Domaninek, Bystřice nad Pernštejnem, Czech Rep. Report No. CZBYTF1132022 GEP Unpublished Syngenta file no: VV-1042894	N	SYN
KCP 6.2 KCP 6.4.1	Bezdičková Alena	2022	Syngenta T1 solutions for foliar diseases control in spring barley Ditana spol. s r. o. Report No. CZDITF1032022 GEP Unpublished Syngenta file no: VV-1042895	N	SYN
KCP 6.2 KCP 6.4.1	Milan Mihók	2022	Syngenta T1 solutions for foliar diseases control in spring barley Blumeria consulting, Nitra, Slovakia Report No. SKBLTF1022022 GEP Unpublished Syngenta file no: VV-1042896	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2 KCP 6.4.1	Milan Mihók	2022	Amistar, Amistar Max T2 - solution performance and comparison to competitors Blumeria consulting, Nitra, Slovakia Report No. SKBLTF1052022 GEP Unpublished Syngenta file no: VV-1042898	N	SYN
KCP 6.2 KCP 6.4.1	Stanislav Hudec	2023	Amistar, Amistar Max T2 - solution performance and comparison to competitors Crop Research Institute Prague, Praha, Czech Republic Report No. CZPRTF1112023 GEP Unpublished Syngenta file no: VV-1042908	N	SYN
KCP 6.2 KCP 6.4.1	Stanislav Stachecki	2023	T1 solutions for foliar diseases control in spring barley - check performance of new T1 solutions Zemědělská ZC Kujavy, Kujavy, Czech Republic Report No. CZKUTF1052023 GEP Unpublished Syngenta file no: VV-1042911	N	SYN
KCP 6.2 KCP 6.4.1	Alena Bezdíčková	2023	T1 solutions for foliar diseases control in spring barley - check performance of new T1 solutions Ditana spol. s r. o. Report No. CZDITF1042023 GEP Unpublished Syngenta file no: VV-1042916	N	SYN
KCP 6.2 KCP 6.4.1	Wojciech Ciemniak	2020	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field Field Research Support Kościan PL Report No. PLFPZF1072020 GEP Unpublished	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Syngenta file no: VV-942007		
KCP 6.2 KCP 6.4.1	Adam Garbowski	2020	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field Syngenta Polska Sp. z o.o Report No. PLDSZF7132020 GEP Unpublished Syngenta file no: VV-941771	N	SYN
KCP 6.2 KCP 6.4.1	Miso Jovic	2020	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field SynTech Research Germany GmbH, Loptin, Germany Report No. DESYZF6382020 GEP Unpublished Syngenta file no: VV-1042919	N	SYN
KCP 6.2 KCP 6.4.1	Iris Könings	2020	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field SynTech Research Germany GmbH, Loptin, Germany Report No. DESYZF6392020 GEP Unpublished Syngenta file no: VV-1042920	N	SYN
KCP 6.2 KCP 6.4.1	Marek Paluch	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field BioChem agrar Polska Spolka z o.o. Report No. PLBCZF8652021 GEP Unpublished Syngenta file no: VV-941724	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2 KCP 6.4.1	Mateusz Świtkowski	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field SynTech Research Poland Report No. PLSYZF6762021 GEP Unpublished Syngenta file no: VV-941999	N	SYN
KCP 6.2 KCP 6.4.1	Łukasz Pejka	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field SynTech Research Poland Report No. PLSYZF6772021 GEP Unpublished Syngenta file no: VV-942000	N	SYN
KCP 6.2 KCP 6.4.1	Klaudia Potocka	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field SynTech Research Poland Report No. PLSYZF6782021 GEP Unpublished Syngenta file no: VV-942001	N	SYN
KCP 6.2 KCP 6.4.1	Doreen Krüger	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field Syngenta Agro GmbH Report No. DEDSZF9282021 GEP Unpublished Syngenta file no: VV-941105	N	SYN
KCP 6.2 KCP 6.4.1	Marek Sikora	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field BioChem agrar Polska Spolka z o.o. Report No. PLBCZF8642021	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished Syngenta file no: VV-941723		
KCP 6.2 KCP 6.4.1	David Nannen	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on triticale – Field Acceres Field Research Germany GmbH Report No. DESYZF6852021 GEP Unpublished Syngenta file no: VV-941109	N	SYN
KCP 6.2 KCP 6.4.1	Doreen Krüger	2020	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field Syngenta Agro GmbH Report No. DEDSZF9292020 GEP Unpublished Syngenta file no: VV-1042923	N	SYN
KCP 6.2 KCP 6.4.1	Doreen Krüger	2020	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field Syngenta Agro GmbH Report No. DEDSZF9302020 GEP Unpublished Syngenta file no: VV-1042925	N	SYN
KCP 6.2 KCP 6.4.1	Wojciech Ciemniak	2020	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field Field Research Support Kościan PL Report No. PLFPZF1082020 GEP Unpublished Syngenta file no: VV-942008	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2 KCP 6.4.1	Michael Ingenerf	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field BioChem agrar Agroplan, Uedem, Germany Report No. DEBCZF6672021 GEP Unpublished Syngenta file no: VV-941024	N	SYN
KCP 6.2 KCP 6.4.1	Maciej Kasperek	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field SynTech Research Poland Report No. PLSYZF6682021 GEP Unpublished Syngenta file no: VV-941995	N	SYN
KCP 6.2 KCP 6.4.1	Klaudia Potocka	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field SynTech Research Poland Report No. PLSYZF6692021 GEP Unpublished Syngenta file no: VV-941996	N	SYN
KCP 6.2 KCP 6.4.1	Łukasz Pejka	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field SynTech Research Poland Report No. PLSYZF6702021 GEP Unpublished Syngenta file no: VV-941997	N	SYN
KCP 6.2 KCP 6.4.1	Austeja Svereikaite	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field LAMMC Report No. LTAKZF6662021	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			GEP Unpublished Syngenta file no: VV-941637		
KCP 6.2 KCP 6.4.1	Jacek Kozłowski	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field SynTech Research Poland Report No. PLSYZF6712021 GEP Unpublished Syngenta file no: VV-941998	N	SYN
KCP 6.2 KCP 6.4.1	Joanna Pietryuga	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field Institute Ochrony Roslin, Sosnicowice, Poland Report No. PLSOZF6742021 GEP Unpublished Syngenta file no: VV-942017	N	SYN
KCP 6.2 KCP 6.4.1	Doreen Krüger	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field Syngenta Agro GmbH Report No. DEDSZF9272021 GEP Unpublished Syngenta file no: VV-941104	N	SYN
KCP 6.2 KCP 6.4.1	Marek Sikora	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field BioChem agrar Polska Spolka z o.o. Report No. PLBCZF8622021 GEP Unpublished Syngenta file no: VV-941721	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
KCP 6.2 KCP 6.4.1	Marek Paluch	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field BioChem agrar Polska Spolka z o.o. Report No. PLBCZF8632021 GEP Unpublished Syngenta file no: VV-941722	N	SYN
KCP 6.2 KCP 6.4.1	Siegert, Egbert	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field Syngenta Agro GmbH Report No. DEDSZF3182021 GEP Unpublished Syngenta file no: VV-941096	N	SYN
KCP 6.2 KCP 6.4.1	Doreen Krüger	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on rye – Field Syngenta Agro GmbH Report No. DEDSZF9262021 GEP Unpublished Syngenta file no: VV-941103	N	SYN
KCP 6.2 KCP 6.4.1	Mateusz Ćwiek	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on oat – Field SynTech Research Poland Report No. PLSYZF6602021 GEP Unpublished Syngenta file no: VV-1042926	N	SYN
KCP 6.2 KCP 6.4.1	Mateusz Switkowski	2021	CDL+PTZ - Registration trials - Efficacy testing against foliar diseases on oat – Field SynTech Research Poland Report No. PLSYZF6622021 GEP	N	SYN

Data point	Author(s)	Year	Title Source Company Report No. GLP or GEP status Published or Unpublished Syngenta File No.	Vertebrate study	Owner SYN = Syngenta
			Unpublished Syngenta file no: VV-1042927		
KCP 6.2 KCP 6.4.1	Ene Ilumäe	2018	A12916B - LEX/FEX on cereals - Efficacy testing against foliar diseases on barley- Field Estonian Crop Research Institute Report No. EESAZF1102018* Document No. VV-1042936 Test Facility Syngenta GEP Unpublished	N	SYN

* This trial was conducted in 2018.

Appendix 2 Summary of data on trial sites and application details per use

Wheat efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones

No new data are presented.

Barley efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones

Test Report	Test Facility Country GEP Acc. No.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Em. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Site Type	Application Details			
						Method	Equipment	Appl. Date	Crop GS
DEBCZF8512021	BioChem agrar	Weeze, Nordrhein-	Winter barley	PP 1/135(4)	13.5 m2, 1 plot	SPRAY	BOSPHO	23-Apr-	BBCH 32

	Agroplan, Uedem, Germany Germany	Westfalen	(HORVW) Orbit	PP 1/225(2)	4	300 SPRAY 300	BOSPHO	2021 06-May- 2021	(32 - 32) BBCH 39 (39 - 39)
	1d68f7c3a27	51.6122222 / 6.1607778	22-Oct-2020	PP 1/26(4) PP 1/152(4) PP 1/181(4) Yes	Randomized Complete Block (RCB) INCLUDED field				
DEBCZF8532021	BioChem Agrar, Gerichshain, Germany Germany	Trossin, Sachsen	Winter barley (HORVW) Lomerit	PP 1/181(4) PP 1/152(4)	27.5 m2, 1 plot 4	SPRAY 300 SPRAY 300	BOSPHO BOSPHO	20-Apr- 2021 06-May- 2021	BBCH 32 (31 - 33) BBCH 41 (39 - 45)
	1d68da64072	51.629113 / 12.783976	30-Sep-2020	PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	Randomized Complete Block (RCB) INCLUDED field				
DESYZF6352021	SynTech Research Germany GmbH, Christinenthal, Germany Germany	Möckmühl-Ruchen, Baden-Württemberg 49.3121794 / 9.3878036	Spring barley (HORVS) AVALON 13-Apr-2021	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	21 m2, 1 plot 4 Randomized Complete Block (RCB) field	SPRAY 300 SPRAY 300	SPRAYE SPRAYE	21-May- 2021 14-Jun- 2021	BBCH 31 (30 - 30) BBCH 49 (47 - 51)
DEDS0F2892020	Syngenta Agro GmbH Germany	Beckedorf, Niedersachsen Schaumburg 52.371881 / 9.303768	Winter barley (HORVW) Lomerit 09-Oct-2019	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	12 m2, 1 plot 4 Randomized Complete Block (RCB) field	SPRAY 300	BOSPHO	06-May- 2020	BBCH 43 (39 - 49)
DEDS0F3742020	Syngenta Germany	Görlitz, Sachsen	Winter barley (HORVW)	PP 1/26(4)	10.5 m2, 1 plot	SPRAY 300	BOSPHO	28-Apr- 2020	BBCH 37 (35 - 39)

	Germany Certificate without	Lausitz 51.13007 / 14.88951	Meridian sandy loam	PP 1/225(2) PP 1/135(4) PP 1/181(4) PP 1/152(4) Yes	4 Randomized Complete Block (RCB) INCLUDED field				
DEDS0F4082020	Syngenta Agro GmbH Germany	Straubing, Bayern Bayern 48.80825 / 12.73234	Winter barley (HORVW) Vireni loess	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	10.5 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300	SPRBIC	28-Apr- 2020	BBCH 49 (47 - 51)
DEDS0F9272020	Syngenta Agro GmbH Germany	Beckentin, Mecklenburg- Vorpommern LWL 53.233564 / 11.584331	Winter barley (HORVW) Ketos loamy sand	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	12 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300	SPRAYE	05-May- 2020	BBCH 45 (41 - 51)
CZDITF1032022	Ditana spol. s r. o. Czechia GEP/DIT/2021	Velká Bystrice, Olomoucký kraj 49.589263 / 17.371143	Spring barley (HORVS) Sebastian 05-Apr-2022 clay loam	PP 1/135(4) PP 1/26(4) PP 1/152(4) PP 1/181(5) Yes	20.25 m2, 1 plot 4 Completely Randomized (CRD) INCLUDED field	SPRAY 300	BICCAI	19-May- 2022	BBCH 37 (34 - 37)
SKBLTF1022022	Blumeria consulting, Nitra, Slovakia Slovakia No. 04/C-07/2021	Rastislavice, Nitriansky kraj BL 48.143711 / 18.072917	Spring barley (HORVS) Kangoo 31-Mar-2022 1 clay loam	PP 1/181(5) PP 1/152(4) PP 1/26(4) PP 1/135(4) Yes	20 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300	SPHIPR	11-May- 2022	BBCH 31 (30 - 32)
CZDITF1042023	Ditana spol. s r. o.	Velká Bystrice,	Spring barley (HORVS)	PP 1/135(4)	20.25 m2, 1 plot	SPRAY	BICCAI	26-May-	BBCH 33

	Czechia GEP/DIT/2021	Olomoucky kraj DI 49.6035753 / 17.3550664	Francin 03-Apr-2023 clay	PP 1/26(4) PP 1/152(4) PP 1/181(5) Yes	4 Completely Randomized (CRD) INCLUDED field	300		2023	(33 - 37)
CZKUTF1052023	Zemědělská ZC Kujavy, Kujavy, Czech Republic Czechia GEP/KUJ/2021	KUJAVY, Moravskoslezsky kraj KU 49.694962 / 17.978746	Spring barley (HORVS) Malz 07-Apr-2023 clay loam	PP 1/135(4) PP 1/26(4) PP 1/152(4) PP 1/181(5) Yes	17.5 m2, 1 plot 4 Completely Randomized (CRD) INCLUDED field	SPRAY 200	BICSPR	25-May- 2023	BBCH 32 (32 - 33)
CZBYTF1132022	Zemservis ZS Domaninek, Bystřice nad Pernštejnem, Czech Rep. Czechia GEP/DOM/2021	Bystrice nad Pernštejnem, Vysocina 49.530107 / 16.249515	Spring barley (HORVS) Bojos 21-Apr-2022 loamy sand	PP 1/135(4) PP 1/26(4) PP 1/152(4) PP 1/181(5) Yes	12 m2, 1 plot 4 Completely Randomized (CRD) INCLUDED field	SPRAY 300	BICSPR	31-May- 2022	BBCH 37 (37 - 39)
SKBLTF1052022	Blumeria consulting, Nitra, Slovakia Slovakia No. 04/C-07/2021	Rastislavice, Nitriansky kraj BL 48.143711 / 18.072917	Spring barley (HORVS) Kangoo 31-Mar-2022 1 clay loam	PP 1/181(5) PP 1/152(4) PP 1/26(4) PP 1/135(4) Yes	20 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300	SPHIPR	18-May- 2022	BBCH 39 (37 - 43)
CZPRTF1112023	Crop Research Institute Prague, Praha, Czech Republic Czechia GEP/CRI/2022	Ivanovice na Hane, Jihomoravský kraj PR 49.3131706 / 17.0997692	Spring barley (HORVS) Malz 25-Mar-2023	PP 1/135(4) PP 1/26(4) PP 1/152(4) PP 1/181(5) Yes	12 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300	BOSPHO	30-May- 2023	BBCH 39 (37 - 39)

EESAZF1102018*	Estonian Crop Research Institute Estonia 3	Saku, Harju County, SA -59.28862 / 24.6171499	silt loam BARLEY (HORSS) Maali 17-May-2018 ROW DRILLING/PLANTING CALCAREOUS CLAY	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 m2, 1 plot 4 RANDOMIZED COMPLETE BLOCK RAARTR FIELD	SPRAY 300	BICSPR	28-Jun- 2018	BBCH 37 (37 - 37)
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*This trial was carried out in 2018.

Triticale efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones

Test Report	Test Facility Country GEP Acc. No.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Em. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Site Type	Application Details			
						Method	Equipment	Appl. Date	Crop GS
DESYZF6382020	SynTech Research Germany GmbH, Loptin, Germany Germany	Moosburg a.d. Isar, Bayern 48.44904 / 11.89004	Winter triticale (TTLWI)	PP 1/135(4)	10 m2, 1 plot	SPRAY 300	BOSPHO	06-May-2020	BBCH 51 (49 - 52)
			SU Agendus	PP 1/225(2)	4	SPRAY 300	BOSPHO	06-May-2020	BBCH 51 (49 - 52)
				PP 1/26(4)	Randomized Complete Block (RCB)				
			silt loam	PP 1/152(4) PP 1/181(4) Yes	field				
DESYZF6392020	SynTech Research Germany GmbH, Loptin, Germany Germany	Göttingen, Niedersachsen 51.527386 / 9.842623	Winter triticale (TTLWI)	PP 1/135(4)	20 m2, 1 plot	SPRAY 200	BOSPHO	05-May-2020	BBCH 37 (37 - 39)
			Tender PZO	PP 1/225(2)	4	SPRAY 200	BOSPHO	05-May-2020	BBCH 37 (37 - 39)
				PP 1/26(4)	Randomized Complete Block (RCB)				
			sandy loam	PP 1/152(4) PP 1/181(4) Yes	INCLUDED field				
PLDSZF7132020	Syngenta Polska Sp. z o.o	Zlobizna, Opolskie	Winter triticale	PP 1/181(4)	17.5 m2, 1 plot	SPRAY	SPRAYE	18-May-	BBCH 51 (51

	Poland		(TTLWI) Fredro	PP 1/152(4)	4	300 SPRAY 300	SPRAYE	2020 18-May- 2020	- 53) BBCH 51 (51 - 53)
	4/2014	50.8314262 / 17.4609316	26-Sep-2019 sandy loam	PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	Randomized Complete Block (RCB) INCLUDED field				
PLFPZF1072020	Field Research Support Kościan PL	Kościan, Wielkopolskie	Winter triticales (TTLWI)	PP 1/181(4)	15.25 m2, 1 plot	SPRAY 200	BACCAI	07-May- 2020	BBCH 39 (39 - 41)
	Poland		Meloman	PP 1/152(4)	4	SPRAY 200	BACCAI	07-May- 2020	BBCH 39 (39 - 41)
	9/2013	52.061264 / 16.617889	11-Oct-2019 sandy loam	PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	Randomized Complete Block (RCB) field				
DEDSZF9282021	Syngenta Agro GmbH	Dallmin, Brandenburg	Winter triticales (TTLWI)	PP 1/135(4)	12.45 m2, 1 plot	SPRAY 300	SPRAYE	01-Jun- 2021	BBCH 51 (49 - 55)
	Germany	Prignitz	Lombardo	PP 1/225(2)	4	SPRAY 300	SPRAYE	01-Jun- 2021	BBCH 51 (49 - 55)
	not relevant	53.217339 / 11.782717	loamy sand	PP 1/26(4) PP 1/152(4) PP 1/181(4) Yes	Randomized Complete Block (RCB) INCLUDED field				
DESYZF6852021	Acceres Field Research Germany GmbH	Glückstadt, Schleswig- Holstein	Winter triticales (TTLWI)	PP 1/135(4)	20 m2, 1 plot	SPRAY 200	SPRBIC	02-Jun- 2021	BBCH 55 (51 - 59)
	Germany		Lombardo	PP 1/225(2)	4	SPRAY 200	SPRBIC	02-Jun- 2021	BBCH 55 (51 - 59)
	1234	53.81007 / 9.42	loamy clay	PP 1/26(4) PP 1/152(4) PP 1/181(4) Yes	Randomized Complete Block (RCB) field				
PLBCZF8642021	BioChem agrar Polska Spolka z o.o.	Urbanowice, ul. Kozielska 48, Opolskie	Winter triticales (TTLWI)	PP 1/135(4)	18.75 m2, 1 plot	SPRAY 300	BOSPHO	24-May- 2021	BBCH 41 (39 - 41)
	Poland		Meloman	PP 1/225(2)	4	SPRAY 300	BOSPHO	24-May- 2021	BBCH 41 (39 - 41)

	1d61cf2ed6d	50.294076 / 18.011648	20-Oct-2020	PP 1/26(4) PP 1/152(4) PP 1/181(4) Yes	Randomized Complete Block (RCB) INCLUDED field				
PLBCZF8652021	BioChem agrar Polska Spolka z o.o. Poland 1d61cf2ed6d	Kazmierz, Wielkopolskie 52.5184 / 16.61001	Winter triticales (TTLWI) Belcanto 05-Nov-2020 loamy sand	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	27.5 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300 SPRAY 300	BOSPHO BOSPHO	20-May-2021 20-May-2021	BBCH 39 (37 - 39) BBCH 39 (37 - 39)
PLSYZF6762021	SynTech Research Poland Poland 7/2020	Żnin, Kujawsko-pomorskie 52.854052 / 17.777413	Winter triticales (TTLWI) Rotondo 05-Oct-2020 clayey sand	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	15 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300 SPRAY 300	BACCAI BACCAI	31-May-2021 31-May-2021	BBCH 49 (49 - 51) BBCH 49 (49 - 51)
PLSYZF6772021	SynTech Research Poland Poland 7/2020	Szydłowo, Wielkopolskie 53.169708 / 16.601671	Winter triticales (TTLWI) Dolindo 08-Oct-2020 sandy loam	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	14 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 200 SPRAY 200	BOSPHO BOSPHO	13-May-2021 13-May-2021	BBCH 37 (37 - 37) BBCH 37 (37 - 37)
PLSYZF6782021	SynTech Research Poland Poland 7/2020	Gietrzwałd, Warmińsko-mazurskie 53.7364528 / 20.2811872	Winter triticales (TTLWI) Tadeus 14-Oct-2020	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2)	18 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED	SPRAY 200 SPRAY 200	BACCAI BACCAI	14-May-2021 14-May-2021	BBCH 37 (37 - 39) BBCH 37 (37 - 39)

			sandy loam	PP 1/135(4) Yes	field				
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Rye efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones

Test Report	Test Facility Country GEP Acc. No.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Em. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Site Type	Application Details			
						Method	Equipment	Appl. Date	Crop GS
DEDSZF9292020	Syngenta Agro GmbH Germany	Kremmin, Mecklenburg-Vorpommern 53.243764 / 11.608602	Winter rye (SECCW)	PP 1/181(4)	12 m2, 1 plot	SPRAY 300	SPRAYE	05-May-2020	BBCH 45 (41 - 51)
			Cossani	PP 1/152(4)	4	SPRAY 300	SPRAYE	05-May-2020	BBCH 45 (41 - 51)
				PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	Randomized Complete Block (RCB) INCLUDED field				
			loamy sand						
DEDSZF9302020	Syngenta Agro GmbH Germany	Werle, Mecklenburg-Vorpommern LWL 53.26762 / 11.678549	Winter rye (SECCW)	PP 1/181(4)	12 m2, 1 plot	SPRAY 300	SPRAYE	06-May-2020	BBCH 39 (37 - 45)
			Serafino	PP 1/225(2)	4	SPRAY 300	SPRAYE	06-May-2020	BBCH 39 (37 - 45)
				PP 1/135(4) PP 1/26(4) PP 1/152(4) Yes	Randomized Complete Block (RCB) INCLUDED field				
			loamy sand						
PLFPZF1082020	Field Research Support Kościan PL Poland 9/2013	Śrem, Wielkopolskie 52.036756 / 17.017578	Winter rye (SECCW)	PP 1/181(4)	13.65 m2, 1 plot	SPRAY 200	BACCAI	27-Apr-2020	BBCH 45 (45 - 49)
			Tur	PP 1/152(4)	4	SPRAY 200	BACCAI	27-Apr-2020	BBCH 45 (45 - 49)
				PP 1/26(4) PP 1/225(2) PP 1/135(4)	Randomized Complete Block (RCB) field				
			05-Oct-2019						

			sandy loam	Yes					
DEBCZF6672021	BioChem agrar Agroplan, Uedem, Germany Germany 1d68f7c3a27	Weeze, Nordrhein- Westfalen 51.6160278 / 6.162	Winter rye (SECCW) SU Composit 26-Oct-2020 loamy sand	PP 1/135(4) PP 1/225(2) PP 1/26(4) PP 1/152(4) PP 1/181(4) PP 1/135(4) PP 1/225(2) Yes	13.5 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300 SPRAY 300	BOSPHO BOSPHO	03-May- 2021 03-May- 2021	BBCH 51 (45 - 53) BBCH 51 (45 - 53)
DEDSZF3182021	Syngenta Agro GmbH Germany	Döbeln, Sachsen Döbeln 51.197751 / 12.9609	Winter rye (SECCW) Performer sandy loam	PP 1/135(4) PP 1/225(2) PP 1/26(4) PP 1/152(4) PP 1/181(4) Yes	15.75 m2, 1 plot 4 Randomized Complete Block (RCB) field	SPRAY 300 SPRAY 300	BOSPHO BOSPHO	03-May- 2021 03-May- 2021	BBCH 37 (33 - 37) BBCH 37 (33 - 37)
DEDSZF9262021	Syngenta Agro GmbH Germany not relevant	Werle, Mecklenburg- Vorpommern LWL 53.261129 / 11.667127	Winter rye (SECCW) Mephisto loamy sand	PP 1/135(4) PP 1/225(2) PP 1/26(4) PP 1/152(4) PP 1/181(4) Yes	12.375 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300 SPRAY 300	SPRAYE SPRAYE	18-May- 2021 18-May- 2021	BBCH 47 (45 - 49) BBCH 47 (45 - 49)
DEDSZF9272021	Syngenta Agro GmbH Germany not relevant	Neese, Mecklenburg- Vorpommern 53.243581 / 11.640148	Winter rye (SECCW) Forsetti loamy sand	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	12.375 m2, 1 plot 4 Randomized Complete Block (RCB) field	SPRAY 300 SPRAY 300	SPRAYE SPRAYE	19-May- 2021 19-May- 2021	BBCH 49 (47 - 51) BBCH 49 (47 - 51)
LTAKZF6662021	LAMMC Lithuania	Kedainiai, Kauno Apskritis Lithuania	Spring rye (SECCS) Bojko	PP 1/152(4) PP 1/181(4)	25 m2, 1 plot 4	SPRAY 300 SPRAY 300	SPRBIC SPRBIC	14-Jun- 2021 14-Jun- 2021	BBCH 51 (51 - 51) BBCH 51 (51 - 51)

	AS4-02(2019)	55.384242 / 23.876624	26-Apr-2021	PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	Randomized Complete Block (RCB) field				
PLBCZF8622021	BioChem agrar Polska Spolka z o.o. Poland 1d61cf2ed6d	Urbanowice, ul. Kozielska 48, Opolskie 50.294632 / 18.010253	Winter rye (SECCW) KWS Jethro 19-Oct-2020 silt	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	18.75 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300 SPRAY 300	BOSPPO BOSPPO	10-May-2021 10-May-2021	BBCH 39 (37 - 39) BBCH 39 (37 - 39)
PLBCZF8632021	BioChem agrar Polska Spolka z o.o. Poland 1d61cf2ed6d	Kazmierz, Wielkopolskie 52.51906 / 16.63351	Winter rye (SECCW) Bono 12-Nov-2020 loamy sand	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	15 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 300 SPRAY 300	BOSPPO BOSPPO	15-May-2021 15-May-2021	BBCH 41 (41 - 45) BBCH 41 (41 - 45)
PLSOZF6742021	Institute Ochrony Roslin, Sosnowice, Poland Poland 1/2020	Sośnicowice, Slaskie 50.26777 / 18.54998	Winter rye (SECCW) Dolaro 19-Oct-2020 sandy loam	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4) Yes	15.008 m2, 1 plot 4 Randomized Complete Block (RCB) field	SPRAY 300 SPRAY 300	BICSPR BICSPR	11-May-2021 11-May-2021	BBCH 39 (39 - 39) BBCH 39 (39 - 39)
PLSYZF6682021	SynTech Research Poland Poland 7/2020	Niemce, Lubelskie 51.343782 / 22.670617	Winter rye (SECCW) Dankowskie Granat 08-Oct-2020	PP 1/181(4) PP 1/152(4) PP 1/26(4) PP 1/225(2) PP 1/135(4)	21 m2, 1 plot 4 Randomized Complete Block (RCB) INCLUDED field	SPRAY 250 SPRAY 250	BACCAI BACCAI	11-May-2021 11-May-2021	BBCH 37 (37 - 39) BBCH 37 (37 - 39)

			sandy loam	Yes					
PLSYZF6692021	SynTech Research Poland	Gietrzwałd, Warminko-mazurskie	Winter rye (SECCW)	PP 1/181(4)	18 m2, 1 plot	SPRAY 200	BACCAI	20-May-2021	BBCH 51 (47 - 51)
	Poland		KWS Jethro	PP 1/152(4)	4	SPRAY 200	BACCAI	20-May-2021	BBCH 51 (47 - 51)
	7/2020	53.7345015 / 20.2829854	23-Sep-2020	PP 1/26(4) PP 1/225(2) PP 1/135(4)	Randomized Complete Block (RCB) INCLUDED field				
			silt loam	Yes					
PLSYZF6702021	SynTech Research Poland	Czarnków, Wielkopolskie	Winter rye (SECCW)	PP 1/181(4)	14 m2, 1 plot	SPRAY 200	BOSPHO	13-May-2021	BBCH 37 (37 - 37)
	Poland	WP	Dańkowskie Diament	PP 1/152(4)	4	SPRAY 200	BOSPHO	13-May-2021	BBCH 37 (37 - 37)
	7/2020	52.883444 / 16.664946	26-Sep-2020	PP 1/26(4) PP 1/225(2) PP 1/135(4)	Randomized Complete Block (RCB) INCLUDED field				
			sandy loam	Yes					
PLSYZF6712021	SynTech Research Poland	Góra, Dolnoslaskie	Winter rye (SECCW)	PP 1/181(4)	24 m2, 1 plot	SPRAY 300	BOSPHO	10-May-2021	BBCH 49 (47 - 51)
	Poland		Piano	PP 1/152(4)	4	SPRAY 300	BOSPHO	10-May-2021	BBCH 49 (47 - 51)
	7/2020	51.64219 / 16.449804	08-Oct-2020	PP 1/26(4) PP 1/225(2) PP 1/135(4)	Randomized Complete Block (RCB) INCLUDED field				
			sandy loam	Yes					

Oats efficacy trials from 2020-2023 in Maritime and North-East EPPO climatic zones

Test Report	Test Facility Country	Trial Location Trial Region	Crop Cultivar	Guidelines	Plot Size No. of Reps	Application Details			
						Method	Equipment	Appl. Date	Crop GS
	GEP Acc. No.	Trial GPS (Y/Xcoord.)	Em. Date Perennial Age Plant/Prun S. Soil Type	GEP	Trial Design Untreat. Arrang. Site Type				

PLSYZF6602021	SynTech Research Poland	Szydłowo, Wielkopolskie	spring oat (AVESP)	PP 1/181(4)	14 m2, 1 plot	SPRAY 300	BOSPHO	11-Jun- 2021	BBCH 47 (45 - 49)
	Poland		Bingo	PP 1/152(4)	4	SPRAY 300	BOSPHO	11-Jun- 2021	BBCH 47 (45 - 49)
	7/2020		25-Mar-2021	PP 1/26(4)	Randomized Complete Block (RCB) INCLUDED field				
			sandy loam	PP 1/225(2) PP 1/135(4) Yes					
PLSYZF6622021	SynTech Research Poland	Znin, Kujawsko- pomorskie	spring oat (AVESP)	PP 1/181(4)	24 m2, 1 plot	SPRAY 300	BACCAI	17-Jun- 2021	BBCH 41 (41 - 43)
	Poland		Kasztan	PP 1/152(4)	4	SPRAY 300	BACCAI	17-Jun- 2021	BBCH 41 (41 - 43)
	7/2020		30-Apr-2021	PP 1/26(4)	Randomized Complete Block (RCB) field				
			loamy sand	PP 1/225(2) PP 1/135(4) Yes					

Wheat (TRZAX) efficacy trials in Maritime EPP0 climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
BERDZF7662019	Redebel sa Belgium 01 SL	Wanfercée-Baulet Fleurus 50.48875 / 4.5744	Winter wheat Bennington - - RODRPL -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	23/05/2019	BBCH: 39 - 41	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Fusarium sp.</i> : pest severity <i>Septoria tritici</i> : pest severity
BERDZF7672019	Redebel sa Belgium 01 SL	Warisoulx La Bruyere 50.528934 / 4.861091	Winter wheat Benchmark - - RODRPL -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21.25 M2 4 RACOB Randomized arrangement within trial	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	23/05/2019	BBCH: 37 - 39	<i>Puccinia striiformis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED -	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
					4 positn Field					MIXED	Winter wheat: weight - fresh Winter wheat: yield <i>Fusarium sp.</i> : pest severity <i>Puccinia striiformis</i> : pest severity <i>Septoria tritici</i> : pest severity
DEDSZF1272018	Syngenta Germany	Klecken Germany 53.37895 / 9.928902	Winter wheat Kashmir 09/10/2017 - RODRPL silt	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	27/04/2018 31/05/2018	BBCH: 30 - 31 BBCH: 51 - 55	<i>Septoria tritici</i> MIXED - POINFC <i>Septoria tritici</i> POINFC - MIXED <i>Septoria tritici</i> PRINFC - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Pyrenophora tritici-repentis</i> : pest severity <i>Septoria tritici</i> : pest severity
DEDSZF2822019	Syngenta Germany	Beckedorf Schaumburg 52.3647 / 9.312147	Winter wheat Tobak - - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	23/05/2019	BBCH: 45 - 49	<i>Blumeria graminis</i> SPORUL - SPORUL <i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Blumeria graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
DEDSZF2892018	Syngenta Germany	Beckedorf Schaumburg 52.352776 / 9.327661	Winter wheat Ritmo - - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	07/05/2018 23/05/2018	BBCH: 31 - 32 BBCH: 45 - 45	<i>Septoria tritici</i> SPORUL - SPORUL <i>Blumeria graminis</i> SPORUL - SPORUL <i>Puccinia recondita</i> SPORUL - SPORUL <i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF3132018	Syngenta Agro GmbH Germany	Aldommatszsch Meissen 51.202663 / 13.291206	Winter wheat Akteur 17/10/2017 - RODRPL loess	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	17/05/2018	BBCH: 41 - 45	<i>Erysiphe graminis</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
DEDSZF4142018	Syngenta Germany Germany	Peinkofen Straubing-Bogen 48.79072 / 12.73049	Winter wheat Benchmark RODRPL silt	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12.75 M2 4 RACOB - 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	14/05/2018	BBCH: 41 - 45	<i>Puccinia recondita</i> LATENT - LATENT	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
DEDSZF9372018	Syngenta R&D Germany	Werle Ludwigslust 53.267345 / 11.671164	Winter wheat Akteur 29/09/2017 loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	24/04/2018 17/05/2018	BBCH: 31 - 32 BBCH: 39 - 41	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED <i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita f. sp. tritici</i> : pest severity
DESYZF7782019	SynTech Research Germany GmbH, Loptin Germany	Meimersdorf Kiel 54.276257 / 10.124125	Winter wheat Tobak - - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - manually wheeled - horizontal	20/05/2019	BBCH: 39 - 41	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: pest severity Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Puccinia striiformis f. sp. tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DESYZF7792019	SynTech Research Germany GmbH, Loptin Germany	Kalübbe Plon 54.115791 / 10.2719	Winter wheat Benchmark - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	18/05/2019	BBCH: 37 - 37	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
DKAVZF7682019	VKST FieldTrial, Ringsted Denmark	Gl. Bedstedvej Zealand 55.449844 / 11.87706	Winter wheat Torp - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	40 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer	14/05/2019	BBCH: 37 - 37	<i>Erysiphe graminis</i> ACTIVE - ACTIVE <i>Septoria tritici</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
DKAVZF7692019	VKST FieldTrial, Ringsted Denmark	Midtbyøst Zealand 55.456364 / 11.951036	Winter wheat Hereford - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	40 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer	13/05/2019	BBCH: 37 - 37	<i>Septoria tritici</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
FRBKZF8052018	BIOTEK Agriculture, Saint Pouange / Troyes, France BPE013	Rully Bourgogne Franche Co 46.877 / 4.757361	Winter wheat Oregrain - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	19.2 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	08/05/2018	BBCH: 39 - 45	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Fusarium sp.</i> : pest severity <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRBKZF8062018	BIOTEK Agriculture, Saint Pouange / Troyes, France BPE013	Plougonven Bretagne 48.53622 / -3.714361	Winter wheat Lyrik - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.4 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer	14/05/2018	BBCH: 39 - 41	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
FRBKZF8072018	BIOTEK Agriculture, Saint Pouange / Troyes, France BPE013	Plouaret - 48.632526 / - 3.492167	Winter wheat Rgt Sacramento 07/10/2017 loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25.2 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer Boom sprayer	19/04/2018 14/05/2018	BBCH: 32 - 32 BBCH: 47 - 53	<i>Puccinia striiformis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED <i>Puccinia striiformis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis</i> : pest severity <i>Septoria tritici</i> : pest severity
FRCOZF8172018	Syngenta France	Fresnes en Woevre France 49.10336 / 5.61292	Winter wheat Trapez 01/11/2017 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB - 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer – horizontal Boom sprayer - horizontal	20/04/2018 18/05/2018	BBCH: 31 - 31 BBCH: 47 - 49	<i>Septoria tritici</i> MIXED – MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
FREPZF8062018	ESSAIS PLUS, Boyelles France GEP036	Ransart Pas de calais 50.210968 / 2.670364	Winter wheat Istabraq - - - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18.75 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer – horizontal Boom sprayer - horizontal	03/05/2018 25/05/2018	BBCH: 32 - 32 BBCH: 45 - 45	<i>Septoria tritici</i> SPORUL – SPORUL <i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
FRMBZF8202018	Syngenta France	Voissay Sud Ouest 45.941 / -0.6245	Winter wheat Apache - - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB - 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Bicycle sprayer Bicycle sprayer	18/04/2018 07/05/2018	BBCH: 32 - 32 BBCH: 32 - 32	<i>Septoria tritici</i> INCUBA – SPORUL <i>Septoria tritici</i> INCUBA - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
											<i>Septoria tritici</i> : pest severity
FRSYZF7762019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Fauville Normandie 49.023697 / 1.195647	Winter wheat Laurier - - - sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray n/d	Boom sprayer - horizontal	16/05/2019	BBCH: 39 - 45	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED <i>Puccinia striiformis f. sp. tritici</i> PRINFC - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity
FRSYZF7772019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Neuvy le roi Indre et loire 47.591286 / 0.622959	Winter wheat Nemo - - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	03/05/2019	BBCH: 39 - 39	<i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
GB26ZF2012018	Syngenta UK United Kingdom	Luton IC Peters Green 51.864574 / - 0.325973	Winter wheat Reflection 25/10/2017 - RODRPL sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	22.5 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - hand held	28/05/2018	BBCH: 41 - 41	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED	Winter wheat: content - moisture Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity
GB26ZF2022018	Syngenta UK United Kingdom	Stamford PFS - Wheat Peterborough 52.599422 / - 0.493124	Winter wheat Britannia - - - sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOBL Randomized arrangement within trial 10 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	28/05/2018	BBCH: 43 - 49	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: hectolitre weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
GB27ZF2012018	Syngenta UK United Kingdom	Luton Platform Site Peters Green 51.864471 / - 0.326441	Winter wheat Barrel 24/10/2017 - RODRPL clay loam	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) Yes	25 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - hand held Boom sprayer - hand held	09/05/2018 21/05/2018	BBCH: 32 - 32 BBCH: 39 - 39	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: content - moisture Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
GB27ZF2022018	Syngenta UK United Kingdom	Stamford PFS - Wheat Peterborough 52.599148 / -0.49352	Winter wheat Kws Barrel - - - sandy clay loam	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) Yes	20 M2 4 RACOBL Randomized arrangement within trial 10 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - handheld – horizontal Boom sprayer - handheld - horizontal	09/05/2018 31/05/2018	BBCH: 31 - 32 BBCH: 45 - 51	<i>Septoria tritici</i> MIXED – MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
GBSRZF9082018	SynTech Research UK United Kingdom ORETO 362	Snettisham Norfolk 52.854015 / 0.466329	Winter wheat Kws Bassett 23/10/2017 - - silty clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20.63 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - handheld – horizontal Boom sprayer - handheld - horizontal	04/05/2018 31/05/2018	BBCH: 32 - 32 BBCH: 49 - 52	<i>Septoria tritici</i> MIXED – MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
GBSYZF8022019	Syntech Research UK United Kingdom ORETO 362	Cavenham Suffolk 52.282799 / 0.554276	Winter wheat Soissons - - - sandy clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18.13 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	19/05/2019	BBCH: 43 - 47	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
IECPZF9042018	Crop Plot Trials Ireland TFTP No 008 (2018)	Carrigtohill Cork 51.91747 / -8.28248	Winter wheat Costello 09/11/2017 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	23 M2 4 RACOBL Randomized arrangement within trial 1 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - hand held Boom sprayer - hand held	29/04/2018 29/05/2018	BBCH: 30 - 32 BBCH: 41 - 47	<i>Septoria tritici</i> ACTIVE – ACTIVE <i>Septoria tritici</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
IETGZF7822019	TEAGASC, Carlow, Ireland Ireland	Carlow Carlow 52.861458 / - 6.922075	Winter wheat Lumos 02/11/2018 RODRPL clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	22/05/2019	BBCH: 39 - 45	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
DEDSZF2882018	Syngenta Germany	Barsinghausen/ OT Landringhausen Hannover 52.362576 / 9.458111	Winter wheat Bussart - - RODRPL silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	08/05/2018 24/05/2018	BBCH: 31 - 32 BBCH: 39 - 45	<i>Septoria tritici</i> SPORUL - SPORUL <i>Puccinia recondita</i> SPORUL - SPORUL <i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
FRSYZF7722019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Villetroche France 47.731487 / 1.349979	Durum wheat Miradoux - - - silty clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	21/05/2019	BBCH: 45 - 49	<i>Septoria tritici</i> SPORUL - SPORUL	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Septoria tritici</i> : pest severity

Wheat (TRZAX) efficacy trials in Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESSTZF0012018	SynTech Research Spain, Valencia, Spain	Villar de Torre La Rioja 42.366577 / -2.853184	Winter wheat Marco Polo 05/12/2017 - - fine clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB - 1 plot Field	Foliar spray 200 L/HA	Band sprayer	03/05/2018	BBCH: 37 - 37	<i>Septoria tritici</i> PRINFC - PRINFC	Winter wheat: phytotoxicity - general <i>Septoria tritici</i> : content - moisture <i>Septoria tritici</i> : content - protein <i>Septoria tritici</i> : hectolitre weight <i>Septoria tritici</i> : pest severity <i>Septoria tritici</i> : weight - fresh <i>Septoria tritici</i> : yield

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESDVZF0032018	DevReg Consulta slu Spain 73/11	Llobera Solsones 41.9259 / 1.495	Winter wheat Somontano 07/11/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 1 ear Field	Foliar spray 200 L/HA	Boom sprayer - manually wheeled - horizontal	17/05/2018	BBCH: 37 - 37	<i>Septoria tritici</i> PRINFC - PRINFC	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity <i>Septoria tritici</i> : phytotoxicity - general
FREUZF8062018	Eurofins Aagrosience Services France	Saint Bénigne Ain 46.442749 / 4.972099	Sinter wheat Sy Moisson 24/11/2017 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	27.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - manually wheeled - vertical	02/05/2018	BBCH: 39 - 43	<i>Septoria tritici</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
FRSGZF8052018	SGS France, Union, France France BPE-055	Lapalud Vaucluse 44.318371 / 4.719244	Winter wheat Arezzo 17/12/2017 - - silty clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - handheld - horizontal	07/05/2018	BBCH: 45 - 45	<i>Puccinia recondita</i> LATENT - LATENT	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity
FRSYZF7702019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Fontanes Gard 43.822777 / 4.110833	Winter wheat Soleiho - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	21/05/2019	BBCH: 45 - 49	<i>Puccinia recondita</i> PRINFC - PRINFC	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity
FRSYZF7732019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Nîmes Gard 43.80772 / 4.385759	Winter wheat Orloge - - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	01/05/2019	BBCH: 39 - 39	<i>Puccinia recondita</i> PRINFC - PRINFC	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF7742019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Monferran Savès Gers 43.625332 / 0.954274	Winter wheat Tiepolo - - - silty clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Backpack sprayer	29/04/2019	BBCH: 47 - 51	<i>Puccinia striiformis f. sp. tritici</i> ACTIVE - ACTIVE	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : color - green leaf area <i>Puccinia striiformis f. sp. tritici</i> : pest severity
ITNOZF2402019	Syngenta Italia SPA Italy	Via Cordenazzo 1, 30010 Cona (VE) Cona 45.170303 / 12.127454	Winter wheat Giorgione 06/11/2018 - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 400 L/HA	Boom sprayer - handheld - horizontal	19/04/2019	BBCH: 41 - 41	-	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
ESAYZF0152018	Agricultura y Ensayo S.L., Alcalá de Guadaira, Spain Spain 45/00	Camino Utrera-Los Molares Sevilla 37.132778 / -5.7525	Durum wheat Amilcar 17/01/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer	29/03/2018	BBCH: 41 - 43	-	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Septoria tritici</i> : pest severity
ESAYZF7322019	Agricultura y Ensayo S.L., Alcalá de Guadaira, Spain Spain 45/00	Finca San Jose Moron de la Frontera 37.100555 / -5.553611	Durum wheat Athoris 22/11/2018 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer	25/03/2019	BBCH: 43 - 45	<i>Puccinia Striiformis f. sp. tritici</i> ACTIVE - ACTIVE	Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRQUZF8092018	QUALIPHYT - Faramans, France France BPE-119	Étoile-sur-Rhône - 44.823837 / 4.839114	Durum wheat Anvergur 23/12/2017 - - silty clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	23.3 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer	02/05/2018	BBCH: 37 - 39	<i>Septoria tritici</i> POINFC - POINFC	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Septoria tritici</i> : pest severity
GRAIZF3202018	Agri 2000 Hellas Greece AGR/16/2020	Axioupoli Greece 40.96664 / 22.58851	Durum wheat Quadrato 30/11/2017 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Imbricated arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	10/04/2018	BBCH: 37 - 41	<i>Septoria tritici</i> MIXED - MIXED	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Septoria tritici</i> : pest severity
GRALZF3212018	AGROLAB-RDS Greece AGR/04/2020	Lakkia Thessaloniki 40.499695 / 23.079512	Durum wheat Maestrale 2017-12-15 - RODRPL sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 20 positn Field	Foliar spray 400 L/HA	Boom sprayer - handheld - horizontal	11/04/2018	BBCH: 37 - 39	-	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity
GRUNZF7242019	AgroUnit Greece AUN/05/2020	Dasochori of Falani Greece 39.690834 / 22.430555	Durum wheat Egeo - - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 400 L/HA	Boom sprayer - horizontal	14/04/2019	BBCH: 37 - 43	<i>Pyrenophora tritici-repentis</i> LATENT - LATENT	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Pyrenophora tritici-repentis</i> : pest severity <i>Septoria tritici</i> : pest severity
IT39ZF5302018	AGRI 2000 NET S.R.L., Castel Maggiore (BO), Italy 18A04190 -07-06- 2018	Castelfidardo Ancona 43.444115 / 13.551595	Durum wheat Achille 20/11/2017 - - silty clay loam	EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	23/04/2018	BBCH: 37 - 41	<i>Septoria tritici</i> MIXED - MIXED	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ITCEZF2412019	Syngenta Italia S.p.A. Italy	Loc. Marsiliana - Manciano Manciano 42.5595 / 11.3686	Durum wheat Svevo loamy clay sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	13.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	27/04/2019	BBCH: 45 - 45	-	Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Septoria tritici</i> : pest severity
ITSOZF0412018	Syngenta Italia SpA Italy	Loc. Cunicella - Foggia Foggia 41.544628 / 15.509412	Durum wheat Saragolla - - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 5 positn Field	Foliar spray 400 L/HA	Boom sprayer	16/04/2018	BBCH: 39 - 39	<i>Septoria tritici</i> PRINFC - PRINFC	Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Septoria tritici</i> : pest severity
ITSOZF2432019	Syngenta Italia S.p.A. Italy	Loc. Cunicella - Foggia Foggia 41.54538 / 15.509446	Durum wheat Massimo Meridio - - clay sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 5 positn Field	Foliar spray 400 L/HA	Boom sprayer	02/04/2019	BBCH: 37 - 39	<i>Puccinia striiformis f. sp. tritici</i> PRINFC - PRINFC	Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: reflectance Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity
ESSAZF7332019	SAGEA Iberia S.L. Spain 96/18	Villalube Spain 41.601589 / -5.555	Spring wheat Garcia 30/11/2018 - ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.2 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	01/05/2019	BBCH: 37 - 45	<i>Septoria tritici</i> MIXED - MIXED	Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Septoria tritici</i> : pest severity
ESSAZF7342019	SAGEA Iberia S.L. Spain 96/18	VILLALUBE Spain 41.604424 / -5.554167	Spring wheat Crackling 26/12/2018 ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.2 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	03/05/2019	BBCH: 37 - 45	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED	Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESSAZF7352019	SAGEA Iberia S.L. Spain 96/18	Villalube Spain 41.604424 / -5.554167	Spring wheat Crackling 31/12/2018 - ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.2 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	03/05/2019	BBCH: 37 - 45	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED	Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity
IT39ZF5312018	AGRI 2000 NET S.R.L., Castel Maggiore (BO) Italy 18A04190 -07-06- 2018	Strada Provinciale 5 Granarolo 44.573711 / 11.458812	Spring wheat Giorgione 14/11/2017 - - clay loam	EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	27/04/2018	BBCH: 37 - 41	<i>Puccinia recondita</i> MIXED - MIXED	Spring wheat: color - green leaf area Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Septoria tritici</i> : pest severity

Wheat (TRZAX) efficacy trials in North-East EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LVALZF1062018	Kenneth J. Sorensen Latvia 14	Gaiki Brocenu 56.761272 / 22.492931	Spring wheat Granny - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	27/06/2019	BBCH: 65 - 65	<i>Puccinia striiformis f. sp. tritici</i> ACTIVE - ACTIVE	Spring wheat: color - green leaf area Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
LVRIZF7842019	Latvian Plant Protection Research Centre, Riga, Latvia	Dizstende Talsu novads 57.187237 / 22.564468	Winter wheat Edvins 01/10/2018 - - calcareous loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	11.25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	23/05/2019	BBCH: 39 - 43	<i>Erysiphe graminis</i> ACTIVE - ACTIVE <i>Pyrenophora tritici-repentis</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Phaeosphaeria nodorum</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
LVRIZF7852019	Latvian Plant Protection Research Centre, Riga, Latvia	ZIEDKALNE Jelgavas novads 56.436523 / 23.455996	Winter wheat Famulus 01/10/2018 - - clay sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	11.25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	23/05/2019	BBCH: 37 - 39	<i>Erysiphe graminis</i> ACTIVE - ACTIVE <i>Pyrenophora tritici-repentis</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Phaeosphaeria nodorum</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLBCZF1282018	BioChem Agrar Sp. z o.o, Gosciecin, Poland	Urbanowice Gosciecin 50.3058 / 18.0467	Winter wheat Arkadia 13/10/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	14/05/2018	BBCH: 45 - 45	<i>Erysiphe graminis</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: pest severity Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
PLBCZF1292018	BioChem Agrar Sp. z o.o, Gosciecin, Poland	Nowa Wies Ujska Ujskie 53.03009 / 16.759783	Winter wheat 13/10/2017 - RODRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	17/05/2018	BBCH: 41 - 41	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Septoria tritici</i> : pest severity
PLFPZF1132018	Field Research Support Koscian PL Poland	Zamyslowo Steszew 52.259159 / 16.681154	Winter wheat Kws Ozon - - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 10 positn Field	Foliar spray 200 L/HA	Backpack sprayer	18/05/2018	BBCH: 41 - 43	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
PLSOZF1122018	Institute Ochrony Roslin, Sosnicowice, Poland 1/2005;WO505- 30/2010	Sosnicowice gliwicki 50.27058 / 18.5225	Winter wheat Naridana 12/10/2017 - RODRPL sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14.98 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - manually wheeled - horizontal	28/04/2018	BBCH: 31 - 33	<i>Erysiphe graminis</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSOZF1132018	Institute Ochrony Roslin, Sosnowice, Poland 1/2005;WO505- 30/2010	Lany Wielki gliwiceki 50.28293 / 18.5305	Winter wheat Zyta 23/10/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14.98 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - tractor mounted - horizontal	21/05/2018	BBCH: 45 - 47	<i>Erysiphe graminis</i> MIXED - MIXED <i>Puccinia recondita</i> MIXED - MIXED <i>Pyrenophora tritici-repentis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
PLSYZF7912019	SynTech Research Poland Sp.zo.o. Poland	Osetno Gorowski 51.639503 / 16.461512	Winter wheat Lindberg - 1 Year ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	01/05/2019	BBCH: 37 - 39	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
PLSYZF7922019	SynTech Research Poland Sp z.o.o Poland	Baborowko Wielkopolska 52.587086 / 16.643843	Winter wheat Arkadia 21/05/2019 1 Year - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	21/05/2019	BBCH: 39 - 41	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
PLSYZF7932019	SynTech Research Poland Sp. z o.o. Poland	Mrowino Rokietnica 52.508717 / 16.678801	Winter wheat Solehio 29/10/2018 1 Year ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	21/05/2019	BBCH: 43 - 45	<i>Puccinia recondita</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSYZF7942019	SynTech Research Poland Sp z.o.o Poland	Wierzbica Lubelskie 50.96552 / 23.520752	Winter wheat Linus - RODRPL sandy clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	30/05/2019	BBCH: 43 - 47	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
PLUPZF1092018	Poznan University of Life Science Poland WO-505-47/2010	Przybroda Rokietnica 52.509258 / 16.6492	Winter wheat Arkadia 07/10/2017 - RODRPL fine loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	22 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Bicycle sprayer	18/05/2018	BBCH: 43 - 47	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
PLUPZF1102018	Poznan University of Life Science Poland WO-505-47/2010	Branch Zlotniki Suchy Las 52.48701 / 16.82425	Winter wheat Bogatka 08/10/2017 - RODRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Bicycle sprayer	15/05/2018	BBCH: 41 - 45	<i>Puccinia recondita</i> PRINFC - PRINFC <i>Septoria tritici</i> MIXED - MIXED	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity

Wheat (TRZAX) efficacy trials in South-East EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
BGEUZF2472018	Eurofins Agroscience Services EOOD, Letniza, Bulgaria 001/002	Letnitsa , Lovech , Bulgaria 43.339493 / 25.05571	Winter wheat Sadovo 19/10/2017 - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 300 L/HA	Backpack sprayer	19/04/2018	BBCH: 37 - 39	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
BGSAZF7222019	SAGEA OOD Bulgaria 0021225(IT)- 006(BG)	General Toshevo General Toshevo 43.65053 / 27.99994	Winter wheat Korona 04/11/2018 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	02/05/2019	BBCH: 41 - 45	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity
BGSAZF7232019	SAGEA Bulgaria 0021225(IT)- 006(BG)	Karadjovo Sadovo 42.095554 / 24.910778	Winter wheat Ekstoc 30/11/2018 - ARDRPL clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	01/05/2019	BBCH: 41 - 45	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity <i>Septoria tritici</i> : phytotoxicity - general
HUAFZF4382018	Agrofil-SZMI Kft. Hungary PE/NT/00306- 11/2017	Püski, GYMS, Hungary Gyor-Moson-Sopron 47.907402 / 17.408716	Winter wheat Magdalena 24/10/2017 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	11.25 M2 4 RACOB Randomized arrangement within trial 10 positn Field	Foliar spray 200 L/HA	Bicycle sprayer	24/04/2018	BBCH: 33 - 35	<i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: pest severity Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
HUCPZF7282019	CPRP Hungary 04.2/4838-7/2016	Bony Gyor-Moson-Sopron 47.661007 / 17.882038	Winter wheat Taller 28/10/2018 - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOBL Randomized arrangement within trial 1 plot Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	30/04/2019	BBCH: 37 - 41	<i>Puccinia striiformis f. sp. tritici</i> MIXED - MIXED	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis f. sp. tritici</i> : color - green leaf area <i>Puccinia striiformis f. sp. tritici</i> : pest severity
HUCPZF7292019	CPRP, Hungary 04.2/4838-7/2016	Karmacs, Zala County, Hungary Zala 46.841591 / 17.178955	Winter wheat Gk Bekes 11/11/2018 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	02/05/2019	BBCH: 37 - 41	<i>Pyrenophora tritici-repentis</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
HUHUZF4372018	Syngenta HU Hungary 02.7/110/10/2009	Tura, Pest county, Hungary Pest 47.580132 / 19.596273	Winter wheat Bologna 28/10/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 400 L/HA	Bicycle sprayer	04/05/2018	BBCH: 39 - 39	-	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
HUHUZF5032019	Syngenta HU Hungary 02.7/110/10/2009	Tököl, Pest, Hungary Pest 47.280228 / 18.994198	Winter wheat Gk Csillag - RODRPL	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	25/04/2019	BBCH: 37 - 37	<i>Puccinia recondita</i> LATENT - LATENT	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity
HUHUZF5042019	Syngenta HU Hungary 02.7/110/10/2009	Szandaszolos, JNSz, HU Jasz-Nagykun- Szolnok 47.109653 / 20.203539	Winter wheat Mv Buzogany - RODRPL fine clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	03/05/2019	BBCH: 37 - 39	<i>Puccinia recondita f. sp. tritici</i> SPORUL - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
HUHUZF9022019	Syngenta HU Hungary 02.7/110/10/2009	Alsónémedi, Pest, Hungary Pest 47.328796 / 19.159222	Winter wheat Jafet - RODRPL	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	18/04/2019	BBCH: 37 - 37	<i>Puccinia recondita</i> LATENT - LATENT	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Microdochium nivale</i> : pest severity <i>Puccinia recondita</i> : pest severity
ROEUZF5082018	Eurofins Agroscience Services SRL Romania	Murgenca, Ialomita, Romania Ialomita 44.703037 / 27.53454	Winter wheat Izvor 27/09/2017 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	03/05/2018	BBCH: 39 - 41	<i>Puccinia recondita</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
ROSYZF7952019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Viisoara Bihor 47.38944 / 22.411407	Winter wheat Sorrial 16/10/2018 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	16/05/2019	BBCH: 41 - 47	<i>Puccinia striiformis f. sp. tritici</i> PRINFS - PRINFS	Winter wheat: color - green leaf area Winter wheat: phytotoxicity - general <i>Fusarium sp.</i> : pest severity <i>Puccinia striiformis f. sp. tritici</i> : pest severity
ROSYZF7962019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Curtici Arad 46.32204 / 21.305729	Winter wheat Dumbrava 17/10/2018 - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	13/05/2019	BBCH: 41 - 47	<i>Puccinia recondita</i> PRINFC - PRINFC	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
ROSYZF7972019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Sat. Hodoni Timis 45.920372 / 21.110544	Winter wheat Apache 22/10/2018 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	15/05/2019	BBCH: 43 - 47	<i>Puccinia recondita</i> PRINFC - PRINFC <i>Septoria tritici</i> PRINFC - PRINFC	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Fusarium sp.</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ROSYZF7982019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Darmanesti Dambovita 44.53587 / 25.45479	Winter wheat Joker 28/10/2018 - ARDRPL sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - handheld - horizontal	18/05/2019	BBCH: 34 - 37	<i>Septoria tritici</i> PRINFS - PRINFS	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Fusarium graminearum</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
ROSYZF7992019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Dumbrava Prahova 44.51518 / 26.11483	Winter wheat Joker 20/11/2018 - ARDRPL clay sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - handheld - horizontal	10/05/2019	BBCH: 47 - 49	<i>Septoria tritici</i> PRINFS - PRINFS	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
SKNIZF7312019	Blumeria Consulting, Nitra, Slovakia Slovakia 04/C - 04/2018	Zbehy Slovakia 48.36331 / 17.997557	Winter wheat Lukullus 26/10/2018 1 Year RODRPL clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer	08/05/2019	BBCH: 37 - 41	<i>Septoria tritici</i> PRINFC - PRINFC	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
BGANZF2462018	Anadiag Bulgaria I.t.d Bulgaria 11-969/17.09.2013	Stroevo, Plovdiv county, Bulgaria Plovdiv 42.25919 / 24.67494	Winter wheat Annapurna 23/11/2017 1 Year - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	26/04/2018	BBCH: 39 - 45	-	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis</i> f. sp. tritici: pest severity <i>Septoria tritici</i> : pest severity
HUEUF4392018	Eurofins Agroscience Services Kft, Székesfehérvár, Hungary Hungary 04.2/10083/6/2014	Alsónémedi, Pest, Hungary Pest 47.311718 / 19.130444	Winter wheat Mv Nador 18/10/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOBL - 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	04/05/2018	BBCH: 37 - 39	-	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: pest severity Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
											<i>Septoria tritici</i> : pest severity
HUSTZF4402018	STAPHYT Hungary PE_NT_45-7_2018	Jászalsószentgyörgy, Jász-Nagykun-Szolnok Jasz-Nagykun- Szolnok 47.37278 / 20.105556	Spring wheat Mv Suba 08/11/2017 - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB - 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - handheld - horizontal	02/05/2018	BBCH: 34 - 37	<i>Septoria tritici</i> MIXED - MIXED	Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: weight - fresh Spring wheat: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity

Wheat (TRZAX) trials with no or low target disease and/or non-target disease used to demonstrate crop safety in Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF1262018	Syngenta Germany	Traventhal Segeberg 53.899208 / 10.332558	Winter wheat Tobak 10/10/2017 - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12.75 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	28/04/2018 28/05/2018	BBCH: 31 – 32 BBCH: 45 – 61	<i>Erysiphe graminis</i> SPORUL - SPORUL <i>Septoria tritici</i> SPORUL – SPORUL <i>Erysiphe graminis</i> SPORUL - SPORUL <i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Septoria tritici</i> : pest severity
DEDSZF3542019	Syngenta Agro GmbH Germany	Kleindröben Wittenberg 51.73663 / 12.81742	Winter wheat Meister 17/10/2018 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16.88 M2 4 RACOBL Randomized arrangement within trial 1 plot Field	Foliar spray 300 L/HA	Bicycle sprayer	23/05/2019	BBCH: 41 - 43	-	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield
DEDSZF3582018	Syngenta Agro GmbH Germany	Axien Wittenberg 51.69994 / 12.85359	Winter wheat Toras - - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16.63 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	05/05/2018 23/05/2018	BBCH: 32 - 32 BBCH: 49 - 55	-	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita f. sp. tritici</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DKALZF9092018	Agrolab DK Denmark	Middelfart Fuenn 55.52593 / 9.79065	Winter wheat Torp - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	16/05/2018	BBCH: 35 - 37	<i>Septoria tritici</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Puccinia striiformis</i> f. sp. <i>tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
FRSYZF7752019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Loeuilly Hauts de France 49.768467 / 2.194116	Winter wheat Complice 25/10/2018 - calcareous	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	16/05/2019	BBCH: 45 - 45	-	Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield
GBSYZF8002019	SynTech Research UK United Kingdom ORETO 362	Sutton St Edmunds Lincolnshire 52.696594 / 0.014001	Winter wheat Skyfall - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	22/05/2019	BBCH: 39 - 39	<i>Puccinia striiformis</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia striiformis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
GBSYZF8012019	SynTech Research UK United Kingdom ORETO 362	East Winch Norfolk 52.726906 / 0.53755	Winter wheat Skyfall - - sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	22/05/2019	BBCH: 39 - 39	<i>Puccinia striiformis</i> MIXED - MIXED	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia striiformis</i> : pest severity

Wheat (TRZAX) trials with no or low target disease and/or non-target disease used to demonstrate crop safety in Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESSTZF0022018	SynTech Research Spain, Valencia, Spain	Villar de Torre La Rioja 42.388657 / -2.877404	Winter wheat Aguila 05/12/2017 - fine clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	27/04/2018	BBCH: 37 - 37	<i>Erysiphe graminis</i> MIXED - MIXED	Winter wheat: phytotoxicity - general <i>Erysiphe graminis</i> : content - moisture <i>Erysiphe graminis</i> : content - protein <i>Erysiphe graminis</i> : hectolitre weight <i>Erysiphe graminis</i> : pest severity <i>Erysiphe graminis</i> : weight - fresh <i>Erysiphe graminis</i> : yield
ESSAZF7362019	SAGEA Iberia S.L. Spain 96/18	Loma de Ucieza Spain 42.447758 / -4.548333	Spring wheat Crackling 23/12/2019 - ARDRPL clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.2 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	24/05/2019	BBCH: 37 - 49	<i>Puccinia striiformis</i> f. sp. <i>tritici</i> MIXED - MIXED	Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Puccinia striiformis</i> f. sp. <i>tritici</i> : pest severity
ITSOZF2422019	Syngenta Italia Spa Italy	C.da Vaccarizzo - Agira - Enna Agira 37.562809 / 14.631477	Durum wheat Saragolla 06/12/2018 - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	10/04/2019	BBCH: 37 - 41	-	Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield
GRUNZF7252019	AgroUnit Greece AUN/05/2020	Kampos of Krannonas Greece 39.497223 / 22.323334	Durum wheat Simeto 29/11/2018 - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - horizontal	13/04/2019	BBCH: 00 - 00	<i>Pyrenophora tritici-repentis</i> LATENT - LATENT	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh Durum wheat: yield <i>Pyrenophora tritici-repentis</i> : pest severity
FRSYZF7712019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Bourdic Gard 43.974724 / 4.338333	Durum wheat Anvergur - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 1 plot	Foliar spray 250 L/HA	Boom sprayer - horizontal	02/05/2019	BBCH: 45 - 45	-	Durum wheat: color - green leaf area Durum wheat: content - moisture Durum wheat: content - protein Durum wheat: hectolitre weight Durum wheat: phytotoxicity - general Durum wheat: thousand grain weight Durum wheat: weight - fresh

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
					Field						Durum wheat: yield

Wheat (TRZAX) trials with low target disease and/or non-target disease used to demonstrate crop safety in North-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LTAKZF7872019	Lithuanian Institute of Agriculture, Akademija, Lithuania AS4-13/02	Valinava Kedainiai 55.4097 / 23.8665	Spring wheat Hamlet 23/04/2019 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	22.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - manually wheeled - horizontal	12/06/2019	BBCH: 45 - 47	<i>Erysiphe graminis</i> MIXED - MIXED	Spring wheat: color - green leaf area Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> f. sp. <i>tritici</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
LTAKZF7882019	Lithuanian Institute of Agriculture, Akademija, Lithuania ASU-13/02	Gelainiai Kedainiai 55.4097 / 23.8665	Spring wheat Colada 30/04/2019 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	22.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - manually wheeled - horizontal	10/06/2019	BBCH: 43 - 45	<i>Erysiphe graminis</i> MIXED - MIXED	Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> f. sp. <i>tritici</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LTAKZF7892019	Lithuanian Institute of Agriculture, Akademija, Lithuania AS4-13/02	Akademija Kedainiai 55.4097 / 23.8665	Spring wheat Jetstream 30/04/2019 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	22.5 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	14/06/2019	BBCH: 45 - 51	<i>Erysiphe graminis</i> MIXED - MIXED	Spring wheat: color - green leaf area Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity
LTAKZF7902019	Lithuanian Institute of Agriculture, Akademija, Lithuania ASU-13/02	Akademija Kedainiai 55.3902 / 23.8715	Spring wheat Wicki 02/05/2019 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	23.5 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	10/06/2019	BBCH: 45 - 47	-	Spring wheat: color - green leaf area Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Drechslera tritici-repentis</i> : pest severity <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity
LVALZF1052018	Kenneth J. Sorensen Latvia 14	Kursisi Saldus 56.538624 / 22.392235	Spring wheat Cornetto - - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	18/06/2019	BBCH: 39 - 39	<i>Pyrenophora tritici-repentis</i> ACTIVE - ACTIVE	Spring wheat: color - green leaf area Spring wheat: content - moisture Spring wheat: content - protein Spring wheat: hectolitre weight Spring wheat: phytotoxicity - general Spring wheat: thousand grain weight Spring wheat: weight - fresh Spring wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LVRIZF7832019	Latvian Plant Protection Research Centre, Riga, Latvia	Peterlauki Jelgavas novads 56.541847 / 23.717655	Winter wheat Talsis 15/10/2018 - silty clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	11.25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	30/05/2019	BBCH: 45 - 47	<i>Erysiphe graminis</i> ACTIVE - ACTIVE <i>Pyrenophora tritici-repentis</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Phaeosphaeria nodorum</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity <i>Septoria tritici</i> : pest severity
LVRIZF7862019	Latvian Plant Protection Research Centre, Riga, Latvia	Peterlauki Jelgava 56.541847 / 23.717655	Winter wheat Fredis 15/10/218 - silty clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	11.25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	23/05/2019	BBCH: 37 - 39	<i>Erysiphe graminis</i> ACTIVE - ACTIVE <i>Pyrenophora tritici-repentis</i> ACTIVE - ACTIVE	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Erysiphe graminis</i> : pest severity <i>Phaeosphaeria nodorum</i> : pest severity <i>Pyrenophora tritici-repentis</i> : pest severity

Wheat (TRZAX) trial with low target disease used to demonstrate crop safety in South-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
SKAFZF7302019	Research Agro 2008 s.r.o. Slovakia 08/C-02/2016	Dolný žitá, Okres Tranava, Slovakia Okres Tranava 47.929039 / 17.703451	Winter wheat Corvinus 20/10/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	07/05/2019	BBCH: 37 - 39	<i>Septoria tritici</i> SPORUL - SPORUL	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield <i>Puccinia recondita f. sp. tritici</i> : pest severity <i>Septoria tritici</i> : pest severity

Triticale (TTLSS) efficacy trials in the Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF8182018	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Blomard France 46.30545 / 2.980491	Winter triticales Tribeca 22/11/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	18/05/2018	BBCH: 59 - 59	<i>Septoria tritici</i> ACTIVE - ACTIVE	Triticales: color - green leaf area Triticales: content - moisture Triticales: content - protein Triticales: hectolitre weight Triticales: phytotoxicity - general Triticales: thousand grain weight Triticales: weight - fresh Triticales: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
DEDSZF3702019	Syngenta Germany	Herrnhut OT. Rennersdorf Gorlitz 51.02067 / 14.80443	Winter triticales Lombardo - - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15.75 M2 4 RACOB 4 positn Field	Foliar spray 300 L/HA	Boom sprayer	13/05/2019	BBCH: 45 - 49	-	Winter triticales: color - green leaf area Winter triticales: content - moisture Winter triticales: content - protein Winter triticales: hectolitre weight Winter triticales: phytotoxicity - general Winter triticales: thousand grain weight Winter triticales: weight - fresh Winter triticales: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
DEFZZF9092019	Field Research Support Germany	Bordenau Lower Saxony 52.447193 / 9.487112	Winter triticales Barolo 16/10/2018 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	22.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	23/05/2019	BBCH: 51 - 53	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter triticales: color - green leaf area Winter triticales: content - moisture Winter triticales: content - protein Winter triticales: hectolitre weight Winter triticales: phytotoxicity - general Winter triticales: thousand grain weight Winter triticales: weight - fresh Winter triticales: yield <i>Erysiphe graminis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type <i>Septoria tritici</i> : pest severity
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DESYZF9072019	SynTech Research Germany GmbH, Loptin, Germany Germany	Großharriefeld Plon 54.119095 / 10.067952	Winter triticales Sy Lombardo - - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - manually wheeled - horizontal	14/05/2019	BBCH: 45 - 49	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> PRINFC - PRINFC	Winter triticales: color - green leaf area Winter triticales: content - moisture Winter triticales: content - protein Winter triticales: hectolitre weight Winter triticales: phytotoxicity - general Winter triticales: thousand grain weight Winter triticales: weight - fresh Winter triticales: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
DESYZF9082019	SynTech Research Germany GmbH, Loptin, Germany Germany	Grünseiboldsdorf Freising 48.501221 / 11.937778	Winter triticales Su Agendus - - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	14/05/2019	BBCH: 47 - 49	<i>Puccinia recondita</i> PRINFC - PRINFC <i>Septoria tritici</i> PRINFC - PRINFC	Winter triticales: content - moisture Winter triticales: content - protein Winter triticales: hectolitre weight Winter triticales: phytotoxicity - general Winter triticales: thousand grain weight Winter triticales: weight - fresh Winter triticales: yield <i>Puccinia recondita</i> : pest severity <i>Septoria tritici</i> : pest severity
FRSYZF7512019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Mazurier Allier 46.119026 / 3.180309	Winter triticales Tribeca - - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 170 L/HA	Boom sprayer - handheld - horizontal	17/05/2019	BBCH: 51 - 51	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter triticales: color - green leaf area Winter triticales: content - moisture Winter triticales: content - protein Winter triticales: hectolitre weight Winter triticales: phytotoxicity - general Winter triticales: thousand grain weight Winter triticales: weight - fresh Winter triticales: yield <i>Erysiphe graminis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type <i>Septoria tritici</i> : pest severity
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	

Triticale (TTLSS) efficacy trial in the Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF8192018	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	LIAS MIDI-PYRENEES 43.57819 / 1.132711	Winter triticale Bikini 05/11/2017 - - silty clay	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	30/04/2018	BBCH: 39 - 59	<i>Septoria tritici</i> SPORUL - SPORUL	Winter triticale: color - green leaf area Winter triticale: content - moisture Winter triticale: content - protein Winter triticale: hectolitre weight Winter triticale: phytotoxicity - general Winter triticale: thousand grain weight Winter triticale: weight - fresh Winter triticale: yield <i>Septoria tritici</i> : pest severity

Triticale (TTLSS) efficacy trials in the North-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSYZF7532019	SynTech Research Poland Sp.zo.o. Poland 2015-06-01	Swieciechowa Leszczynski 51.862366 / 16.501976	Winter triticale Fredro - 1 Year ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	01/05/2019	BBCH: 37 - 39	<i>Septoria tritici</i> MIXED - MIXED	Winter triticale: color - green leaf area Winter triticale: content - moisture Winter triticale: content - protein Winter triticale: hectolitre weight Winter triticale: phytotoxicity - general Winter triticale: thousand grain weight Winter triticale: weight - fresh Winter triticale: yield <i>Septoria tritici</i> : pest severity
PLSYZF7542019	SynTech Research Poland Sp.z.o.o Poland 2015-06-01	Prusinowo Lubasz 52.850147 / 16.589823	Winter triticale Gringo 04/11/2018 - 1 Year clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	18/05/2019	BBCH: 39 - 41	<i>Erysiphe graminis</i> MIXED - MIXED <i>Septoria tritici</i> MIXED - MIXED	Winter triticale: color - green leaf area Winter triticale: content - moisture Winter triticale: content - protein Winter triticale: hectolitre weight Winter triticale: phytotoxicity - general Winter triticale: thousand grain weight Winter triticale: weight - fresh Winter triticale: yield <i>Erysiphe graminis</i> : pest severity <i>Septoria tritici</i> : pest severity

Triticale (TTLSS) trial with low target disease used to demonstrate crop safety in the Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRBKZF7522019	BIOTEK Agriculture, Saint Pouange / Troyes, France France BPE013	Campeneac Morbihan 47.941944 / - 2.310833	Winter triticale Rgt Omeac - - - silty clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	06/05/2019	BBCH: 49 - 53	<i>Septoria tritici</i> MIXED - MIXED	Winter triticale: color - green leaf area Winter triticale: content - moisture Winter triticale: content - protein Winter triticale: hectolitre weight Winter triticale: phytotoxicity - general Winter triticale: thousand grain weight Winter triticale: weight - fresh Winter triticale: yield <i>Septoria tritici</i> : pest severity

Barley (HORVX) efficacy trials in Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
BERDZF7012019	Redebel sa Belgium 01 SL	Solre-Saint-Géry Beaumont 50.2151 / 4.25247	Winter barley Tonic - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	30/04/2019	BBCH: 37 - 51	<i>Blumeria graminis</i> MIXED - MIXED <i>Puccinia hordei</i> MIXED - MIXED <i>Pyrenophora teres</i> MIXED - MIXED <i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Blumeria graminis</i> : pest severity <i>Fusarium sp.</i> : pest severity <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
BERDZF7022019	Redebel sa Belgium 01 SL	Boscailles Eghezee 50.539829 / 4.902777	Winter barley Tonic - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	30/04/2019	BBCH: 43 - 51	<i>Puccinia hordei</i> MIXED - MIXED <i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Fusarium sp.</i> : pest severity <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF1262019	Syngenta Germany Germany	Rohlstorf Segeberg 53.930538 / 10.54014	Winter barley Lomerit 27/09/2018 loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	14/05/2019	BBCH: 45 - 59	<i>Erysiphe graminis</i> SPORUL - SPORUL <i>Pyrenophora teres</i> SPORUL - SPORUL <i>Rhynchosporium secalis</i> SPORUL - SPORUL	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF1272019	Syngenta Agro GmbH - Germany Germany	Klecken Germany 53.3714 / 9.92625	Winter barley Kws Kosmos 04/10/2018 - - RODRPL silt	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	03/05/2019	BBCH: 37 - 45	<i>Puccinia hordei</i> POINFC - MIXED <i>Puccinia hordei</i> POINFC - PRINFC <i>Pyrenophora</i> <i>teres</i> POINFC - MIXED <i>Pyrenophora</i> <i>teres</i> PRINFC - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity
DEDSZF1682018	Syngenta Germany Germany	Klecken Germany 53.3792 / 9.93126	Sinter barley Kws Tenor 05/10/2017 - - silt	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	11/05/2018	BBCH: 37 - 43	<i>Pyrenophora</i> <i>teres</i> POINFC - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
DEDSZF1722018	Syngenta Germany	Veelböken Nordwest Mecklenburg 53.741547 / 11.179145	Winter barley Malwinta - - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	11/05/2018	BBCH: 39 - 49	<i>Pyrenophora</i> <i>teres</i> MIXED - MIXED <i>Rhynchosporium</i> <i>secalis</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF1982019	Syngenta Germany	Dorf Mecklenburg Nordwest Mecklenburg 53.846004 / 11.481387	Winter barley Ketos - - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	30/04/2019	BBCH: 43 - 49	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF2832018	Syngenta, Germany Germany	Seelze/ OT Lathwehren Hannover 52.373894 / 9.54274	Winter barley Lomerit 05/10/2017 - RODRPL silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	02/05/2018	BBCH: 39 - 49	<i>Puccinia hordei</i> SPORUL - SPORUL <i>Pyrenophora</i> <i>teres</i> SPORUL - SPORUL <i>Rhynchosporium</i> <i>secalis</i> SPORUL - SPORUL	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity
DEDSZF2972018	Syngenta Germany	Beckedorf Schaumburg 52.347778 / 9.308283	Winter barley Leibniz - - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	03/05/2018	BBCH: 49 - 49	<i>Puccinia hordei</i> SPORUL - SPORUL <i>Pyrenophora</i> <i>teres</i> SPORUL - SPORUL <i>Rhynchosporium</i> <i>secalis</i> SPORUL - SPORUL	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
DEDSZF3502019	Syngenta Agro GmbH Germany	Axien Wittenberg 51.71538 / 12.91523	Winter barley California 14/10/2018 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	06/05/2019	BBCH: 45 - 49	-	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
DEDSZF3612018	Syngenta Agro GmbH	Axien Wittenberg	Winter barley Sandra	EPPO:PP 1/225(2) EPPO:PP 1/181(4)	16.88 M2 4	Foliar spray 300 L/HA	Bicycle sprayer	20/04/2018 07/05/2018	BBCH: 31 - 32	-	Winter barley: content - moisture Winter barley: content - protein

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	Germany	51.68035 / 12.8556	30/09/2017 - RODRPL sandy loam	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer		BBCH: 47 - 51		Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF4132018	Syngenta Germany Germany	Stetten Straubing-Bogen 48.80602 / 12.73318	Winter barley Vireni 09/10/2017 - RODRPL silty clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	23/04/2018 03/05/2018	BBCH: 33 - 33 BBCH: 49 - 51	<i>Ramularia collo- cygni</i> LATENT - LATENT <i>Ramularia collo- cygni</i> LATENT - LATENT	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
DEDSZF5222018	Syngenta Agro GmbH Germany	Lichtenau- Benshurst Rastatt 48.715828 / 8.008317	Winter barley California - - ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	20/04/2018 03/05/2018	BBCH: 31 - 32 BBCH: 37 - 47	<i>Ramularia collo- cygni</i> PRINFC - PRINFC <i>Ramularia collo- cygni</i> PRINFC - PRINFC	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
DEDSZF5222019	Syngenta Agro GmbH Germany	Lichtenau- Benshurst Rastatt 48.697994 / 8.032308	Winter barley California - - ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	30/04/2019	BBCH: 37 - 49	<i>Ramularia collo- cygni</i> PRINFC - PRINFC	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
FRASZF8052018	Anadiag France, Ruy, France France	Juvelize Grand Est 48.763332 / 6.663167	Winter barley Etincel 06/10/2017	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4)	25 M2 4 RACOB	Foliar spray 200 L/HA	Boom sprayer - horizontal	02/05/2018	BBCH: 45 - 51	<i>Rhynchosporium secalis</i> POINFC -	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	BPE 105		- - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	Randomized arrangement within trial 4 positn Field					POINFC	Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRASZF8062018	Anadiag France, Ruy, France France BPE 105	Donnelay Grand Est 48.736668 / 6.7005	Winter barley Etincel 19/09/2017 - calcareous clay	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	02/05/2018	BBCH: 45 - 49	<i>Rhynchosporium secalis</i> POINFC - POINFC	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Helminthosporium gramineum</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
FRATZF7132019	ASTRIA 64 France 116	Castestis Pyrenees Atlantiques 43.478233 / 0.707339	Winter barley Amistar - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	12/04/2019	BBCH: 39 - 39	<i>Unknown fungal pathogen</i> LATENT - LATENT	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
FRBKZF8042018	BIOTEK Agriculture, Saint Pouange / Troyes, France France BPE013	Pas de Jeu - 46.991276 / -0.059611	Winter barley Amistar 08/11/2017 - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20.4 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer Boom sprayer	18/04/2018 03/05/2018	BBCH: 32 - 33 BBCH: 49 - 52	<i>Rhynchosporium secalis</i> MIXED - MIXED <i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: pest severity Winter barley: phytotoxicity - general Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity
FRCMZF8262018	Syngenta	Souvine/Sarthe	Winter barley	EPPO:PP 1/152(4)	23.1 M2	Foliar spray	Boom	12/04/2018	BBCH: 31 -	<i>Rhynchosporium</i>	Winter barley: content - moisture

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	France	Le grand boulay 47.8331 / -0.4379	Kws Cassia 25/04/2018 - -	EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	4 RACOB Randomized arrangement within trial 25 leaf4 Field	200 L/HA Foliar spray 200 L/HA	sprayer - handheld - horizontal Boom sprayer - handheld - horizontal	26/04/2018	31 BBCH: 39 - 39	<i>secalis</i> INCUBA - INCUBA <i>Rhynchosporium</i> <i>secalis</i> PRINFC - PRINFC <i>Ramularia collo-</i> <i>cygni</i> SPORUL - SPORUL	Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FREPZF8052018	ESSAIS PLUS, Boyelles, France France BPE 036	Neuville Saint Vaast Pas de Calais 50.341381 / 2.749733	Winter barley Etincel 17/10/2017 - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - horizontal Boom sprayer - horizontal	16/04/2018 11/05/2018	BBCH: 31 - 31 BBCH: 58 - 58	<i>Ramularia collo- cygni</i> SPORE - SPORE	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
FREPZF8072018	ESSAIS PLUS, Boyelles, France France BPE 036	Senlis le sec - 50.026821 / 2.580608	Winter barley Tonic 25/10/2017 - silt loam	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	12.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	11/05/2018	BBCH: 59 - 59	<i>Puccinia hordei</i> SPORUL - SPORUL	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity
FRSYZF7062019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Fleury Somme 49.72305 / 2.10965	Winter barley Etincel 18/10/2018 - calcareous	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	26/04/2019	BBCH: 43 - 43	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity
GBSGZF9032018	SGS United Kingdom Ltd., Banbury, United Kingdom United Kingdom ORETO 342	Micklefield West Yorkshire 53.779236 / -1.3377	Winter barley Kws Tower 13/10/2017 - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB Randomized arrangement within trial 4 positn	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal Boom sprayer - handheld -	03/05/2018 24/05/2018	BBCH: 32 - 33 BBCH: 45 - 52	<i>Ramularia collo- cygni</i> PRINFC - PRINFC <i>Ramularia collo- cygni</i> PRINFC -	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type Field	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
							horizontal			PRINFC	Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity
GBSRZF9042018	SynTech Research UK United Kingdom ORETO 362	Hopton Suffolk 52.380447 / 0.929125	Winter barley Kws Cassia 13/10/2017 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	09/05/2018	BBCH: 39 - 39	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
GBSYZF7402019	SynTech Reasearch UK United Kingdom ORETO 362	Pakenham Suffolk 52.281288 / 0.825428	Winter barley Sy Venture - - sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	01/05/2019	BBCH: 37 - 37	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
GBSYZF7422019	Syntech Research UK LTD United Kingdom ORETO 362	Honington Suffolk 52.336895 / 0.745975	Winter barley Belmont - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	01/05/2019	BBCH: 39 - 41	<i>Puccinia hordei</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity
IETGZF7202019	TEAGASC, Carlow, Ireland Ireland	Carlow Carlow 52.861458 / -6.922075	Winter barley Kws Tower 16/10/2018 - RODRPL clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	07/05/2019	BBCH: 39 - 45	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DKAVZF7032019	VKST Field Trials, Ringsted Denmark NA	Enghavegården Zealand 55.452377 / 11.878037	Spring barley Rgt Planet - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	40 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer	06/06/20 19	BBCH: 43 - 45	-	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
DKAVZF7042019	VKST Field Trials, Ringsted Denmark NA	Tolstrupvej Zealand 55.403107 / 11.819674	Spring barley Rgt Planet - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	40 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer	06/06/2019	BBCH: 39 - 49	-	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
FRBKZF7072019	BIOTEK Agriculture, Saint Pouange / Troyes, France France BPE013	Mezieres en Santerre Somme 49.787777 / 2.573055	Spring barley Rgt Planet - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20.4 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer	24/05/2019	BBCH: 43 - 49	<i>Puccinia hordei</i> MIXED - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
FREPZF7082019	ESSAIS PLUS, Boyelles, France France GEP 036	Wailly France 50.240044 / 2.722403	Spring barley Fandanga 01/03/2019 - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 10 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	24/05/2019	BBCH: 39 - 39	<i>Ramularia collo- cygni</i> PRINFC - PRINFC	Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Ramularia collo-cygni</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
GBSRZF9072018	SynTech Resaerch UK United Kingdom ORETO 362	Ixworth Suffolk 52.313374 / 0.862544	Spring barley Propino 16/04/2018 - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20.63 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal Boom sprayer - handheld - horizontal	30/05/2018 13/06/2018	BBCH: 31 - 31 BBCH: 51 - 57	<i>Ramularia collo-</i> <i>cygni</i> PRINFC - PRINFC <i>Ramularia collo-</i> <i>cygni</i> MIXED - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: weight - fresh Spring barley: yield <i>Puccinia hordei</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
IECPZF9052018	Crop Plot Trials Ireland TFTP No 008 (2018)	Carrigtohill Cork 51.918831 / -8.28054	Spring barley Planet 28/04/2018 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	23 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - hand held Boom sprayer - hand held	06/06/2018 20/06/2018	BBCH: 31 - 34 BBCH: 37 - 52	<i>Rhynchosporium secalis</i> ACTIVE - ACTIVE	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: weight - fresh Spring barley: yield <i>Rhynchosporium secalis</i> : pest severity
FRSGZF8062018	SGS France, L'Union, France France BPE-055	Chemille sur Deme Indre et Loire 47.669933 / 0.680678	Winter barley Etincel - - silt loam	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	26.25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	27/04/2018	BBCH: 51 - 51	<i>Puccinia hordei</i> PRINFC - PRINFC <i>Rhynchosporium secalis</i> MIXED - MIXED	Barley: content - moisture Barley: content - protein Barley: hectolitre weight Barley: phytotoxicity - general Barley: thousand grain weight Barley: weight - fresh Barley: yield <i>Rhynchosporium secalis</i> : pest severity

Barley (HORVX) efficacy trials in Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESANZF0062018	Anadiag Iberica, Gualta, Spain Spain EOR 20/97	Sant Andreu Salou Girones 41.879536 / 2.814977	Winter barley Meseta 24/11/2017 - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - vertical	05/04/2018	BBCH: 33 - 37	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora teres</i> : pest severity
ESAYZF0172018	Agricultura y Ensayo S.L., Alcalá de Guadaira, Spain Spain 45/00	Las Cruces, Guillena Sevilla 37.506668 / - 6.065556	Winter barley Traveler 16/12/2017 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer	04/04/2018	BBCH: 49 - 51	<i>Pyrenophora teres</i> ACTIVE - ACTIVE <i>Ramularia collo- cygni</i> ACTIVE - ACTIVE	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity
ESAYZF7132019	Agricultura y Ensayo Spain 45/00	Olo Olo 42.847221 / - 1.804722	Winter barley Ibaiona 25/12/2018 - sandy clay loam	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) Yes	10 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 300 L/HA	Boom sprayer	12/04/2019	BBCH: 47 - 51	<i>Pyrenophora teres</i> ACTIVE - ACTIVE <i>Rhynchosporium secalis</i> ACTIVE - ACTIVE	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESEUZF0052018	EAS Spain, Zaragoza Spain EOR 33/98	Mesanza Burgos 42.673149 / - 2.659228	Winter barley Maltesse 06/11/2017 - - silty clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	09/05/2018	BBCH: 49 - 51	<i>Pyrenophora teres</i> SPORE - SPORE	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh - reduction Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRBKZF7102019	BIOTEK Agriculture, Saint Pouange / Troyes, France France BPE013	Saint Trivier sur Moignans Ain 46.064472 / 4.8545	Winter barley Maltesse - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	19.2 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer	06/05/2019	BBCH: 58 - 61	<i>Puccinia hordei</i> MIXED - MIXED <i>Ramularia collo- cygni</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity
FREUZF8072018	Eurofins Agroscience Services, France France	Sermoyer Ain 46.483109 / 4.985866	Winter barley Etincel 07/10/2018 - - sandy loam	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	25.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - horizontal	25/04/2018	BBCH: 55 - 57	<i>Rhynchosporium secalis</i> ACTIVE - ACTIVE	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
FRSGZF8072018	SGS France, Union, France France BPE-055	Gontaud de Nogaret Lot-et-Garonne 44.465 / 0.3136	Winter barley Etincel 30/10/2017 - - loam	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	25/04/2018	BBCH: 51 - 51	<i>Ramularia collo- cygni</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
FRSYZF7112019	SynTech Research France SAS, La Chapelle de	Chaleins Ain 46.05217 / 4.80378	Winter barley Ketos 25/10/2018	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4)	15 M2 4 RACOB	Foliar spray 200 L/HA	Boom sprayer - horizontal	19/04/2019	BBCH: 39 - 43	<i>Erysiphe graminis</i> MIXED -	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	Guinchay, France France BPE-059		- - loam	EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	Randomized arrangement within trial 4 positn Field					MIXED <i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF7122019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Buellas Ain 46.190029 / 5.155102	Winter barley Rafaela - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	03/05/2019	BBCH: 49 - 58	<i>Erysiphe graminis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Ramularia collo-cygni</i> : pest severity
IT39ZF5322018	AGRI 2000 NET S.R.L., Castel Maggiore (BO), Italy Italy 18A04190 -07-06- 2018	Mezzomiglio APRICENA 41.7902 / 15.426668	Winter barley Aquirone 20/01/2018 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	20/04/2018	BBCH: 47 - 49	<i>Rhynchosporium secalis</i> ACTIVE - ACTIVE	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity
ITNOZF0402018	Syngenta Italia SPA Italy	Via Marconi Camisano Vicentino (VI) Camisano Vic.(VI) 45.50479 / 11.69	Winter barley Volume 07/11/2017 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 400 L/HA	Backpack sprayer	23/04/2018	BBCH: 51 - 51	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity
ITNOZF2462019	Syngenta Italia SPA	Via Lande,	Winter barley	EPPO:PP 1/225(2)	20 M2	Foliar spray	Boom	17/04/2019	BBCH: 51 -	-	Winter barley: color - green leaf area

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	Italy	Ospedaletto Euganeo (PD) Ospedaletto Euganeo 45.245018 / 11.592705	Amistar 20/11/2018 - - -	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	4 RACOB Randomized arrangement within trial 4 positn Field	400 L/HA	sprayer - handheld - horizontal		51		Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
ITSOZF2442019	Syngenta Italia SpA Italy	Loc. Mileti - Agro Castelnuovo d. Daunia Castelnuovo Daunia 41.636143 / 15.183292	Winter barley Sunshine - - - calcareous clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 400 L/HA	Boom sprayer	17/04/2019	BBCH: 39 - 41	<i>Puccinia hordei</i> PRINFC - PRINFC	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ITSOZF2452019	Syngenta Italia SpA Italy	Loc. C.da De Iulio - Agro Lucera (FG) Lucera 41.587132 / 15.304599	Winter barley Planet - - clay sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 400 L/HA	Boom sprayer	17/04/2019	BBCH: 39 - 39	<i>Puccinia hordei</i> PRINFC - PRINFC	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
ITSOZF2472019	Syngenta Italia S.p.A. Italy	Loc. Casone-Agro di S.Severo (FG) S.Severo 41.656788 / 15.454776	Winter barley Planet - - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 400 L/HA	Boom sprayer	17/04/20 19	BBCH: 39 - 49	-	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: reflectance Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
ESEUZ0032018	EAS Spain, Zaragoza Spain	Ullibarri de los Olleros Alava 42.80762 / -2.5883	Spring barley Rgt Planet 18/01/2018 - sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	09/05/2018	BBCH: 37 - 39	<i>Ramularia collo- cygni</i> SPORE - SPORE	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
ESSAZF7142019	SAGEA Iberia S.L. Spain 96/18	Peleagonzalo Spain 41.497398 / - 5.444722	Spring barley Pewter 02/01/2019 - ARDRPL	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2)	10.2 M2 4 RACOB Randomized arrangement within	Foliar spray 300 L/HA	Boom sprayer - horizontal	02/05/2019	BBCH: 49 - 52	<i>Ramularia collo- cygni</i> MIXED - MIXED	Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type sandy loam	Guidelines GEP Yes	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type trial 4 positn Field	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESSAZF7152019	SAGEA Iberia S.L. Spain 96/18	El Arahal Spain 37.184715 / - 5.571111	Spring barley Planet 01/01/2019 - ARDRPL loam	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	02/04/2019	BBCH: 51 - 52	<i>Pyrenophora teres</i> MIXED - MIXED	Spring barley: weight - fresh Spring barley: yield <i>Ramularia collo-cygni</i> : pest severity Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESSAZF7162019	SAGEA Iberia S.L. Spain 96/18	Algodre Spain 41.578583 / - 5.594722	Spring barley Encarna 01/01/2019 - ARDRPL sandy loam	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) Yes	102 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	03/05/2019	BBCH: 49 - 52	<i>Pyrenophora teres</i> MIXED - MIXED	Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity
FRANZF8012018	ANTEDIS SAS France BPE-082	Beaupuy Gers 43.639164 / 1.008323	Spring barley Prestige - - clay loam	EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) EPPO:PP 1/181(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	26/04/2018	BBCH: 47 - 49	<i>Pyrenophora teres</i> SPORUL - SPORUL <i>Rhynchosporium secalis</i> SPORUL - SPORUL	Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity
ESEUZF0042018	EAS Spain, Zaragoza Spain EOR 33/98	Arlanzon Burgos 42.326374 / - 3.469271	Spring barley Shakira 20/02/2018 - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	19/06/2018	BBCH: 51 - 52	<i>Puccinia hordei</i> SPORE - SPORE	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Puccinia hordei</i> : pest severity

Barley (HORVX) efficacy trials in North-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LTAKZF1132018	LRCAF, Institute of Agriculture Lithuania AS4-13/02	Vainotiskiai Lithuania 55.388603 / 23.847273	Spring barley Quench 06/05/2018 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	18/06/2018	BBCH: 51 - 59	<i>Pyrenophora teres</i> MIXED - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Cochliobolus sativus</i> : pest severity <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
LTAKZF1142018	LRCAF, Institute of Agriculture Lithuania AS4-13/02	Vainotiskiai Lithuania 55.38546 / 23.849129	Spring barley Luoke 08/05/2018 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 25 plant Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	13/06/2018	BBCH: 45 - 49	<i>Erysiphe graminis</i> MIXED - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Erysiphe graminis</i> : pest severity
LTAKZF1152018	LRCAF, Institute of Agriculture Lithuania AS4-13/02	Vainotiskiai Lithuania 55.384731 / 23.851345	Spring barley Milford 04/05/2018 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 25 plant Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	14/06/2018	BBCH: 51 - 55	<i>Erysiphe graminis</i> MIXED - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
											<i>Erysiphe graminis</i> : pest severity
LTAKZF7222019	Institute of Agriculture, Lithuanian Research Centre for Agriculture and Forestry Lithuania AS4-13/02	Akademija Kedainiai 55.40648 / 23.86854	Spring barley Propino 27/04/2019 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	13/06/2019	BBCH: 49 - 51	<i>Pyrenophora teres</i> PRINFC - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LTAKZF7232019	Institute of Agriculture, LRCAF Lithuania AS4-13/02	Akademija Kedainiai 55.40708 / 23.86674	Spring barley Quench 2019-04-29 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	19/06/2019	BBCH: 49 - 51	<i>Pyrenophora teres</i> MIXED - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity
LVALZF1072018	Kenneth J. S?rensen Latvia	Zana Saldus 56.49194 / 22.263329	Spring barley Austri - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	27 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	13/06/2018	BBCH: 39 - 39	<i>Pyrenophora teres</i> ACTIVE - ACTIVE	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
LVALZF1092018	Agrolab, Middelfart, Denmark Latvia	Audziras Latvia 56.494965 / 22.445274	Spring barley Quench - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	28/06/2018	BBCH: 51 - 51	<i>Pyrenophora teres</i> ACTIVE - ACTIVE	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LVLVZF1082018	Kenneth J. Sorensen Latvia 14	Gaiki Brocenu 56.768436 / 22.501001	Spring barley Abava - - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	27/06/2018	BBCH: 39 - 43	-	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LVRIZF7212019	Latvian Plant Protection Research Centre, Riga, Latvia Latvia	Peterlauki Jelgava 56.541183 / 23.72926	Spring barley Tocada 29/04/2019 - - silty clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	28/06/2019	BBCH: 51 - 59	<i>Erysiphe graminis</i> ACTIVE - ACTIVE <i>Phaeosphaeria nodorum</i> ACTIVE - ACTIVE <i>Pyrenophora teres</i> ACTIVE - ACTIVE	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Erysiphe graminis</i> : pest severity <i>Phaeosphaeria nodorum</i> : pest severity <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
PLAGZF7262019	AgroResearch Sp. z o.o. Poland 2012-08-01	Wola Stepowska Kiernozia 52.27522 / 19.82404	Spring barley Basic - - - sandy clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - manually wheeled - horizontal	31/05/2019	BBCH: 39 - 51	<i>Puccinia hordei</i> PRINFC - PRINFC <i>Pyrenophora teres</i> PRINFC - PRINFC	Spring barley: discoloration Spring barley: phytotoxicity - chlorosis Spring barley: phytotoxicity - deformation Spring barley: phytotoxicity - general Spring barley: phytotoxicity - necrosis <i>Puccinia hordei</i> : pest severity
PLBCZF1312018	BioChem Agrar Sp. z o.o, Gosciecin, Poland Poland	Urbanowice Gosciencin 50.313011 / 18.03656	Spring barley Podarek 12/04/2018 - RODRPL silty clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	29/05/2018	BBCH: 39 - 41	<i>Erysiphe graminis</i> MIXED - MIXED <i>Puccinia hordei</i> MIXED - MIXED <i>Pyrenophora teres</i> MIXED - MIXED	Spring barley: color - green leaf area Spring barley: content - moisture Spring barley: content - protein Spring barley: hectolitre weight Spring barley: pest severity Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia hordei</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLULZF1022018	Uniwersytet Przyrodniczy w Lublinie Poland 2012-06-01	Osiny puławski 51.241192 / 22.487444	Spring barley Ella - - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - manually wheeled - horizontal	30/05/2018	BBCH: 49 - 51	<i>Ramularia collo- cygni</i> ACTIVE - ACTIVE	Spring barley: content - moisture Spring barley: hectolitre weight Spring barley: phytotoxicity - general Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Puccinia hordei</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LTAKZF7242019	Institute of Agriculture, Lithuanian Research Centre for Agriculture and Forestry Lithuania AS4-13/02	Valinava Kedainiai 55.38295 / 23.8479	Winter barley Mercurioo 29/09/2018 - RODRPL loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	22/05/2019	BBCH: 49 - 59	<i>Erysiphe graminis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia hordei</i> : pest severity
LTAKZF7252019	Institute of Agriculture, Lithuanian Research Centre for Agriculture and Forestry Lithuania AS4-13/02	Valinava Kedainiai 55.38249 / 23.84846	Winter barley Meridian 30/09/2018 - RODRPL loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	23/05/2019	BBCH: 51 - 59	<i>Erysiphe graminis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity
PLBCZF1302018	BioChem Agrar Sp. z o.o, Gosciecin, Poland Poland	Urbanowice Gosciecin 50.313011 / 18.03656	Winter barley Su Vireni 14/09/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	27/04/2018	BBCH: 41 - 45	-	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: pest severity Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSOZF1142018	IPP-NRI Sosnicowice Branch Poland 1/2005;WO505- 30/2010	Sosnicowice gliwicki 50.26727 / 18.54786	Winter barley Bartos 10/10/2017 - RODRPL sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14.98 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	30/04/2018	BBCH: n/d	-	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSOZF1152018	IPP-NRI Sosnicowice Branch Poland 1/2005;WO505- 30/2010	Lany Wielkie gliwicki 50.28071 / 18.54786	Winter barley Scarpia 10/10/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14.98 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	27/04/2018	BBCH: 32 - 32	<i>Erysiphe graminis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora teres</i> : pest severity
PLSOZF7292019	Institute Ochrony Roslin, Sosnicowice, Poland Poland 1/2005;WO505- 30/2010	Lany Wielki gliwicki 50.2794 / 18.55541	Winter barley Bazant 01/10/2018 - RODRPL loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14.98 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	25/04/2019	BBCH: 33 - 33	<i>Pyrenophora teres</i> MIXED - MIXED <i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
PLSTZF1072018	Staphyt Sp. z o. o., Poznan, Poland Poland	Rozental Warminsko- Mazurskie 53.576942 / 19.746389	Winter barley Zenek 25/09/2017 - - fine sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	09/05/2018	BBCH: 49 - 51	-	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora teres</i> : pest severity
PLSYZF7302019	SynTech Research Poland Sp.zo.o. Poland	Jankowice Wielkie Brzeski 50.773865 /	Winter barley Ida -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4)	18 M2 4 RACOB	Foliar spray 300 L/HA	Boom sprayer - handheld -	30/04/2019	BBCH: 37 - 39	<i>Pyrenophora teres</i> MIXED -	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	2015-06-01	17.449484	1 Year ARDRPL sandy clay loam	EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	Randomized arrangement within trial 4 positn Field		horizontal			MIXED	Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSYZF7312019	SynTech Research Poland Sp.zo.o. Poland 2015-06-01	Pokrzywnica wielkopolska 53.146908 / 16.573015	Winter barley Holmes 21/09/2018 1 Year ARDRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	29/04/2019	BBCH: 41 - 43	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
PLSYZF7322019	Syngenta RD field station CH - Test site Les Barges, Switzerland Poland 2015-06-01	Sary Gaj Lubelskie 51.254135 / 22.20413	Winter barley Meridian - - RODRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20.7 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	09/05/2019	BBCH: 47 - 51	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
PLSYZF7332019	SynTech Research Poland Sp.zo.o. Poland 2015-06-01	Swieciechowa Leszczynski 51.863926 / 16.495667	Winter barley Joy - 1 Year ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	01/05/2019	BBCH: 37 - 41	<i>Puccinia hordei</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity
PLSYZF7342019	SynTech Research	Tarnówko	Winter barley	EPPO:PP 1/225(2)	18 M2	Foliar spray	Boom	25/04/2019	BBCH: 39 -	<i>Pyrenophora</i>	Winter barley: content - moisture

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	Poland Sp.zo.o. Poland 2015-06-01	Wielkopolska 52.768963 / 16.582914	Meridian 12/09/2018 1 Year - loamy sand	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	4 RACOB Randomized arrangement within trial 4 positn Field	150 L/HA	sprayer - handheld - horizontal		43	<i>teres</i> MIXED - MIXED	Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
PLUPZF1112018	University of Life Science Poland WO-505-47/2010	Brody Lwówek 52.430027 / 16.299309	Winter barley Kobuz 28/09/2017 - RODRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 230 L/HA	Bicycle sprayer	16/05/2018	BBCH: 49 - 52	<i>Pyrenophora teres</i> MIXED - MIXED <i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Barley (HORVX) efficacy trials in South-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
HUEUZF4432018	Eurofins Agroscience Services Kft, Székesfehérvár, Hungary 04.2/10083/6/2014	Kápolnásnyék, Fejér, Hungary 47.248169 / 18.676434	Winter barley Antonella 18/10/2017 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB 20 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	26/04/2018	BBCH: 51 - 51	-	Barley: color - green leaf area Barley: content - moisture Barley: content - protein Barley: hectolitre weight Barley: phytotoxicity - general Barley: thousand grain weight Barley: weight - fresh Barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity
ROSYZF7382019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Viisoara Bihor 47.398037 / 22.429905	Spring barley Thuringia 25/03/2019 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	06/06/2019	BBCH: 49 - 51	<i>Pyrenophora teres</i> PRINFC - PRINFC	Spring barley: color - green leaf area Spring barley: phytotoxicity - general <i>Pyrenophora teres</i> : pest severity
BGEUZF2492018	Eurofins Agroscience Services EOOD, Letniza, Bulgaria 001/002	Letnitsa , Lovech , Bulgaria Lovech 43.340088 / 25.053804	Winter barley Veslec 19/10/2017 - - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Backpack sprayer	18/04/2018	BBCH: 43 - 47	-	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
BGEUZF2502018	Eurofins Agroscience Services EOOD, Letniza, Bulgaria 001/002	Letnitsa , Lovech , Bulgaria Lovech 43.340271 / 25.051325	Winter barley Obzor 19/10/2017 - - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Backpack sprayer	18/04/20 18	BBCH: 41 - 45	-	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
BGSAZF7032019	SAGEA OOD Bulgaria 0021225(IT)- 006(BG)	General Toshevo Dobrich 43.660545 / 28.032509	Winter barley Ahat 01/11/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	02/05/2019	BBCH: 43 - 47	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
BGSAZF7042019	SAGEA OOD Bulgaria 0021225(IT)- 006(BG)	Sadovo Sadovo 42.108 / 24.923332	Winter barley Giga 12/11/2018 - - ARDRPL clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	01/05/2019	BBCH: 49 - 53	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora teres</i> : pest severity
BGSAZF7052019	SAGEA Bulgaria 0021225(IT)- 006(BG)	Klimentovo Varna 43.328209 / 27.957144	Winter barley Funky Nov 12/10/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	25-/04/2019	BBCH: 39 - 43	<i>Puccinia hordei</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
BGSAZF7062019	SAGEA OOD Bulgaria 0021225(IT)-	Sadovo Bulgaria 42.18861 /	Winter barley Potok 03/12/2018	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4)	10.5 M2 4 RACOB	Foliar spray 200 L/HA	Boom sprayer - handheld -	03/05/2019	BBCH: 49 - 53	<i>Pyrenophora teres</i> MIXED -	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	006(BG)	25.554167	- - clay	EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	Randomized arrangement within trial 4 positn Field		horizontal			MIXED	Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
BGSGZF2512018	SGS Bulgaria Ltd. Bulgaria 2	Katunitsa, Plovdiv, Bulgaria Plovdiv 42.126751 / 24.890417	Winter barley Obzor 21/10/2017 - - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 20 positn Field	Foliar spray 330 L/HA	Boom sprayer - handheld - horizontal	29/04/2018	BBCH: 39 - 51	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity
BGSGZF7012019	SGS Bulgaria Ltd. Bulgaria 2	Stroevo Plovdiv 42.238613 / 24.699888	Winter barley Veslec 26/10/2018 - ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	9.9 M2 4 RACOB Adjacent arrangement within trial 10 positn Field	Foliar spray 300 L/HA	Band sprayer	18/04/2019	BBCH: 37 - 52	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
BGSGZF7022019	SGS Bulgaria 2	Trud Plovdiv 42.222786 / 24.773367	Winter barley Obzor 13/11/2018 - ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.2 M2 4 RACOB Adjacent arrangement within trial 10 positn Field	Foliar spray 300 L/HA	Band sprayer	19/04/2019	BBCH: 39 - 45	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
BGSTZF2522018	Staphyt Bulgaria 7	Kermen, Sliven, Bulgaria Kermen 42.537777 / 26.255556	Winter barley Fantasy 30/10/2017 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	22.5 M2 4 RACOB 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	18/04/2018	BBCH: 49 - 53	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
											<i>Rhynchosporium secalis</i> : color - green leaf area <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
HUAFZF4422018	Agrofil-SZMI Kft. Hungary PE/NT/00306- 11/2017	Püski,GYMS, Hungary Gyor-Moson- Sopron 47.902466 / 17.404228	Winter barley Su Elen 16/10/2017 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOBL Randomized arrangement within trial 10 positn Field	Foliar spray 200 L/HA	Bicycle sprayer	24/04/2018	BBCH: 37 - 39	<i>Erysiphe graminis</i> SPORUL - SPORUL <i>Helminthosporium sativum</i> SPORUL - SPORUL <i>Ramularia collo- cygni</i> SPORUL - SPORUL	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: pest severity Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Helminthosporium sativum</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity
HUCPZF7072019	SynTech Research Hungary Kft, Táplánszentkereszt, Hungary Hungary 04.2/4838-7/2016	Egervár Zala 46.945843 / 16.848831	Winter barley Amazon 29/05/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	24/04/2019	BBCH: 45 - 51	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity
HUCPZF7112019	SynTech Research Hungary Kft, Táplánszentkereszt, Hungary Hungary 04.2/4838-7/2016	Pápa-Borsosgyor Veszprem 47.310074 / 17.399893	Winter barley Etincel 10/10/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	25/04/2019	BBCH: 39 - 45	<i>Puccinia hordei</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
HUHUZF4832019	Syngenta HU Hungary 02.7/110/10/2009	Jászapáti, JNSz, HU Jasz-Nagykun- Szolnok 47.464001 / 20.121979	Winter barley Fridericus - - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	24/04/2019	BBCH: 37 - 39	<i>Ramularia collo- cygni</i> SPORE - SPORE	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
HUSYZF4412018	SynTech Research Hungary Ltd. Hungary 04.2/4838-7/2016	Gyékényes, Somogy County, Hungary Somogy 46.245277 / 17.003662	Winter barley Casanova 13/10/2017 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOBL Randomized arrangement within trial 20 positn Field	Foliar spray 300 L/HA	Boom sprayer - horizontal	24/04/2018	BBCH: 39 - 45	<i>Erysiphe graminis</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity
ROAUZF5122018	Agroblu Romania SRL Romania 13/04/2016	Silistea, Braila, Romania Braila 45.36439 / 27.755354	Winter barley Montana 19/10/2017 - RODRPL clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOBL Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - handheld - horizontal	27/04/2018	BBCH: 47 - 55	<i>Pyrenophora teres</i> ACTIVE - ACTIVE	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity <i>Pyrenophora teres</i> : pest severity - very low <i>Ramularia collo-cygni</i> : pest severity <i>Ramularia collo-cygni</i> : pest severity - very low
ROBKZF5132018	Biotek Francoro Agriculture Romania 60/512/1258/2013	Petrovaselo, Timis, Romania Timis 45.823765 / 21.579905	Winter barley Heidi 27/10/2017 - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOBL Randomized arrangement within trial 10 positn Field	Foliar spray 400 L/HA	Boom sprayer - horizontal	23/04/2018	BBCH: 47 - 51	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ROEUZF5102018	Eurofins Agroscience Services SRL Romania	Perisoru, Calarasi, Romania Calarasi 44.425762 / 27.51022	Winter barley Cardinal 2017-09-20 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	22/04/2018	BBCH: 39 - 41	<i>Rhynchosporium secalis</i> ACTIVE - ACTIVE	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ROPZRF7352019	AgroProspect SRL Romania 36/F/09.01.2018	Fantana Brasov 45.972858 / 25.297993	Winter barley Gerlach 03/10/2018 - ARDRPL clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	08/05/2019	BBCH: 39 - 45	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
ROSYZF5112018	Syntech Research Agrico SRL Romania 34/F/09.01.2018	Sanandrei, Timis, Romania 45.870911 / 21.165785	Winter barley Salamandre 02/10/2017 - - loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	23/04/2018	BBCH: 49 - 51	<i>Pyrenophora teres</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: pest severity Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity
ROSYZF7362019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Sat. Hodoni Timis 45.54575 / 21.06166	Winter barley Nectaria 27/09/2018 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - horizontal	12/05/2019	BBCH: 49 - 51	<i>Rhynchosporium secalis</i> PRINFS - PRINFS	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Erysiphe graminis</i> : pest severity <i>Fusarium sp.</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ROSYZF7372019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Darmanesti Dambovita 44.925522 / 25.7613	Winter barley Saturn 02/11/2018 - - clay sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - handheld - horizontal	15/05/2019	BBCH: 37 - 39	<i>Pyrenophora teres</i> PRINF5 - PRINF5	Winter barley: phytotoxicity - general <i>Erysiphe graminis</i> : pest severity <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ROSYZF7392019	SC SynTech Research Agrico SRL Romania 34/F/09.01.2018	Crevedia Mare Giurgiu 44.441185 / 25.629026	Winter barley Cardinal 12/11/2018 - ARDRPL clay sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	14 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 250 L/HA	Boom sprayer - handheld - horizontal	13/05/2019	BBCH: 41 - 43	<i>Pyrenophora teres</i> PRINFS - PRINFS	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: housand grain weight Winter barley: weight - fresh Winter barley: yield <i>Pyrenophora teres</i> : pest severity

Barley (HORVX) trials with no or low target disease used to demonstrate crop safety in Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF3092018	Syngenta Agro GmbH Germany	Jessnitz Mittelsachsen 51.17107 / 13.083158	Winter barley Meridian 01/10/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA Foliar spray 300 L/HA	Bicycle sprayer Bicycle sprayer	18/04/2018 08/05/2018	BBCH: 31 - 32 BBCH: 49 - 51	<i>Rhynchosporium secalis</i> MIXED - MIXED <i>Rhynchosporium secalis</i> MIXED - MIXED	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
GB30ZF2012018	Syngenta UK United Kingdom	Abbotts Ripton Huntingdon 52.381107 / - 0.186966	Winter barley Bazooka - - sandy clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - hand held	17/05/2018	BBCH: 45 - 51	-	Winter barley: content - moisture Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield
GBSYZF7412019	SynTech Research UK United Kingdom ORETO 362	Snettisham Norfolk 52.85862 / 0.477221	Winter barley Belmont - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20.63 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	07/05/2019	BBCH: 37 - 41	<i>Puccinia hordei</i> MIXED - MIXED	Winter barley: color - green leaf area Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Puccinia hordei</i> : pest severity <i>Pyrenophora teres</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
IETGZF9052018	TEAGASC, Carlow, Ireland Ireland TP001(2018)	Kildalton Kilkenny 52.343613 / - 7.305833	Spring barley Propino 21/05/2018 - RODRPL clay loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	30 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal Boom sprayer - handheld - horizontal	11/06/2018 26/06/2018	BBCH: 31 - 32 BBCH: 39 - 45	<i>Blumeriella sp.</i> MIXED - MIXED <i>Blumeriella sp.</i> MIXED - MIXED	Spring barley: phytotoxicity - general <i>Blumeriella sp.</i> : color - green leaf area <i>Blumeriella sp.</i> : content - moisture <i>Blumeriella sp.</i> : content - protein <i>Blumeriella sp.</i> : hectolitre weight <i>Blumeriella sp.</i> : pest severity <i>Blumeriella sp.</i> : weight - fresh <i>Blumeriella sp.</i> : yield

Barley (HORVX) trial with no disease used to demonstrate crop safety in Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
ESAYZF7122019	Agricultura y Ensayo Spain 45/00	Fuentes de Nava Fuentes de Nava 42.083057 / - 4.775278	Winter barley Carat 25/11/2018 - - sandy loam	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) EPPO:PP 1/225(2) Yes	10 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 400 L/HA	Boom sprayer	27/04/2019	BBCH: 47 - 49	-	Winter barley: content - moisture Winter barley: content - protein Winter barley: hectolitre weight Winter barley: phytotoxicity - general Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield

Barley (HORVX) trials with low target disease used to demonstrate crop safety in North-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLAGZF7272019	AgroResearch Sp. z o.o. Poland 2012-08-01	Wyborow Chasno 52.1852 / 19.88091	Spring barley Blask - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - manually wheeled - horizontal	31/05/2019	BBCH: 39 - 45	<i>Pyrenophora teres</i> PRINFC - PRINFC <i>Rhynchosporium secalis</i> PRINFC - PRINFC	Spring barley: content - moisture Spring barley: content - protein Spring barley: discoloration Spring barley: hectolitre weight Spring barley: phytotoxicity - chlorosis Spring barley: phytotoxicity - deformation Spring barley: phytotoxicity - general Spring barley: phytotoxicity - necrosis Spring barley: thousand grain weight Spring barley: weight - fresh Spring barley: yield <i>Pyrenophora teres</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
PLAGZF7282019	Florence Bertrand Poland 2012-08-01	Natolin Kiernoski Kiernozia 52.26268 / 19.84508	Winter barley Meridian - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - manually wheeled - horizontal	06/05/2019	BBCH: 49 - 51	<i>Rhynchosporium secalis</i> PRINFC - PRINFC	Winter barley: content - moisture Winter barley: content - protein Winter barley: discoloration Winter barley: hectolitre weight Winter barley: phytotoxicity - chlorosis Winter barley: phytotoxicity - deformation Winter barley: phytotoxicity - general Winter barley: phytotoxicity - necrosis Winter barley: thousand grain weight Winter barley: weight - fresh Winter barley: yield <i>Rhynchosporium secalis</i> : pest severity

Rye (SECCE) efficacy trials in Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEFZZF1182018	Field Research Support Germany	Langenhagen Lower Saxony 52.466331 / 9.745381	Winter rye Su Mephisto 31/10/2017 - - loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	24 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	14/05/2018	BBCH: 55 - 59	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
FRPVZF8182018	PROMO-VERT S.A., Avignon, France France BPE-093	Val de Vesle - 49.180389 / 4.227917	Winter rye Protector 01/11/2017 - - clay loam	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	16.1 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	23/04/2018	BBCH: 37 - 42	<i>Rhynchosporium secalis</i> LATENT - LATENT	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity
DEDSZF3062019	SyngentaAgro GmbH Germany	Dobernitz Mittelsachsen 51.21051 / 12.950103	Winter rye Su Performer 09/10/2018 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	24/04/2019	BBCH: 32 - 32	<i>Puccinia recondita</i> SPORUL - SPORUL <i>Rhynchosporium secalis</i> SPORUL - SPORUL	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
											<i>Puccinia recondita</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity
DEDSZF9292019	Syngenta Germany	Werle Ludwigslust 53.245251 / 11.65698	Winter rye Cossani - - RODRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	03/05/2019	BBCH: 49 - 51	<i>Puccinia recondita</i> MIXED - MIXED <i>Rhynchosporium secalis</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEFMZF1032018	Martin - Feldversuchswesen, Orsingen- Nenzingen, Germany 1d5a35afff9	Hengelau Konstanz 47.866325 / 9.045206	Winter rye Binntto 20/10/2017 - 1 Year sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 1 positn Field	Foliar spray 300 L/HA	Boom sprayer - manually wheeled - horizontal	08/05/2018	BBCH: 55 - 55	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Rhynchosporium secalis</i> : pest severity
DESYZF7612019	SynTech Research Germany GmbH, Preetz, Germany Germany	Großharrie Plon 54.11336 / 10.056414	Winter rye Performer - ARDRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - manually wheeled - horizontal	14/05/2019	BBCH: 49 - 51	<i>Septoria tritici</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity
FRSYZF7562019	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Suevres Loir et Cher 47.705566 / 1.460807	Winter rye Livado - - - silt	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Backpack sprayer	30/04/2019	BBCH: 39 - 51	<i>Rhynchosporium secalis</i> SPORUL - SPORUL	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Rhynchosporium secalis</i> : pest severity

Rye (SECCE) efficacy trials in Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF8172018	SynTech Research France SAS, La Chapelle de Guinchay, France France BPE-059	Saint-Gervais- d'Auvergne Auvergne 46.015266 / 2.869502	Winter rye Su Composit 14/11/2017 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	18/05/2018	BBCH: 52 - 52	<i>Rhynchosporium secalis</i> SPORUL - SPORUL	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Rhynchosporium secalis</i> : pest severity
ESSYZF7552019	SynTech Research Spain Spain EOR 2/96	Cabreros del Río Spain 42.415516 / - 5.535435	Winter rye Corssini - - fine loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	14/05/2019	BBCH: 51 - 51	<i>Puccinia recondita</i> PRINFC - PRINFC	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity
ESSYZF7572019	SynTech Research Spain Spain EOR 2/96	Xinzo de Limia Spain 42.051933 / - 7.671798	Winter rye Serafino - - sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	11/05/2019	BBCH: 39 - 51	<i>Rhynchosporium secalis</i> PRINFC - PRINFC	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Rhynchosporium secalis</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	

Rye (SECCE) efficacy trials in North-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSOZF1162018	Institute Ochrony Roslin, Sosnicowice, Poland 1/2005:WO505- 30/2010	Sierakowice gliwicki 50.27298 / 18.47007	Winter rye 27/10/2017 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	14.98 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Bicycle sprayer	30/04/2018	BBCH: 23 - 28	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> f. sp. tritici: pest severity <i>Rhynchosporium secalis</i> : pest severity
PLSYZF7622019	SynTech Research Poland Sp.zo.o. Poland 2015-06-01	Ryzen Gorowski 51.628822 / 16.526056	Winter rye Su Nasri - 1 Year ARDRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	01/05/2019	BBCH: 39 - 45	<i>Puccinia recondita</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity
PLSYZF7632019	SynTech Research Poland Sp.zo.o. Poland 2015-06-01	Przeclaw Szamotuly 52.556145 / 16.726822	Winter rye Bono 30/09/2018 - 1 Day sandy clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	26/04/2019	BBCH: 39 - 47	<i>Erysiphe graminis</i> MIXED - MIXED <i>Puccinia recondita</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: phytotoxicity - general <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSYZF7642019	SynTech Research Poland Sp.zo.o. Poland 2015-06-01	Sobolewo Wielkopolska 52.883904 / 16.665989	Winter rye Tur 24/09/2018 - 1 Year loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	18 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer - handheld - horizontal	25/04/2019	BBCH: 43 - 49	<i>Erysiphe graminis</i> MIXED - MIXED <i>Puccinia recondita</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Erysiphe graminis</i> : pest severity <i>Puccinia recondita</i> : pest severity

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLSYZF7652019	SynTech Research Poland Sp.zo.o. Poland 2015-06-01	Murczyn Znin 52.858498 / 17.77746	Winter rye Tur 26/09/2018 1 Year ARDRPL sandy clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	15 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - handheld - horizontal	13/05/2019	BBCH: 49 - 51	<i>Puccinia recondita</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity

Rye (SECCE) efficacy trials in South-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
BGSAZF7192019	SAGEA Bulgaria 0021225(IT)- 006(BG)	Sadovo Plovdiv 42.135166 / 24.9235	Winter rye Millennium 27/11/2018 - - clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	03/05/2019	BBCH: 48 - 50	<i>Puccinia recondita</i> MIXED - MIXED	Rye: content - moisture Rye: content - protein Rye: hectolitre weight Rye: phytotoxicity - general Rye: thousand grain weight Rye: weight - fresh Rye: yield <i>Puccinia recondita</i> : pest severity
HRATZF7212019	AGROBIOTEST d.o.o. Croatia UPI-320-20/18- 03/176	Molve, Koprivnica- Krivevci, Croatia Koprivnica- Krivevci 46.12197 / 16.9964	Winter rye Kws Binnito 26/10/2018 - - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 230 L/HA	Boom sprayer - handheld - horizontal	03/50/2019	BBCH: 41 - 47	<i>Puccinia recondita</i> PRINFC - PRINFC	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity

Rye (SECCE) trial with no disease used to demonstrate crop safety in Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
DEDSZF3522019	Syngenta Agro GmbH Germany	Axien Wittenberg 51.70236 / 12.85343	Winter rye Dukato 31/10/2018 - RODRPL sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	17.5 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 300 L/HA	Bicycle sprayer	06/05/2019	BBCH: 45 - 51	-	Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield

Rye (SECCE) trial with low target disease used to demonstrate crop safety in North-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
PLBCZF1322018	BioChem Agrar Sp. z o.o, Gosciecin, Poland Poland	Nowa Wies Ujska Ujscie 53.023609 / 16.76343	Winter rye Dankowskie Diament 31/10/2017 - RODRPL loamy sand	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	10.5 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	10/05/2018	BBCH: 41 - 41	<i>Rhynchosporium secalis</i> MIXED - MIXED	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Rhynchosporium secalis</i> : pest severity

Rye (SECCE) trial with low target disease used to demonstrate crop safety in South-east EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
HRATZF7202019	AGROBIOTEST d.o.o. Croatia UPI-320-20/18- 03/176	Pustakovec, Koprivnica- Krizevci, Croatia Koprivnica- Krizevci 46.22916 / 16.8	Winter rye Kws Bono 29/10/2018 - - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	10 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 220 L/HA	Boom sprayer - handheld - horizontal	02/05/2019	BBCH: 49 - 51	<i>Puccinia recondita</i> PRINFC - PRINFC	Winter rye: color - green leaf area Winter rye: content - moisture Winter rye: content - protein Winter rye: hectolitre weight Winter rye: phytotoxicity - general Winter rye: thousand grain weight Winter rye: weight - fresh Winter rye: yield <i>Puccinia recondita</i> : pest severity

Oats (AVESA) efficacy trials in the Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FREUZF8222018	Eurofins Agroscience Services, France France	Theix Bretagne 47.632954 / - 2.681336	Winter oats Timoko 10/11/2018 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	27 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 150 L/HA	Boom sprayer	07/05/2018	BBCH: 39 - 39	<i>Puccinia coronata</i> ACTIVE - ACTIVE	Winter oats: color - green leaf area Winter oats: content - moisture Winter oats: content - protein Winter oats: hectolitre weight Winter oats: phytotoxicity - general Winter oats: thousand grain weight Winter oats: weight - fresh Winter oats: yield <i>Puccinia coronata</i> : pest severity
DEFZZF7452019	Field Research Support Germany	Wunstorf Lower Saxony 52.405109 / 9.433469	Spring oats Max 21/05/2019 - - sandy loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	21 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	27/06/2019	BBCH: 51 - 51	<i>Erysiphe graminis</i> PRINFC - PRINFC <i>Puccinia coronata</i> PRINFC - PRINFC	Spring oats: color - green leaf area Spring oats: content - moisture Spring oats: content - protein Spring oats: hectolitre weight Spring oats: phytotoxicity - general Spring oats: thousand grain weight Spring oats: weight - fresh Spring oats: yield <i>Erysiphe graminis</i> : pest severity
DESYZF7462019	SynTech Research Germany GmbH, Loptin, Germany Germany	Grünseiboldsdorf Freising 48.446613 / 11.908081	Spring oats Apollon - - RODRPL silty clay	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	12 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	11/06/2019	BBCH: 47 - 52	<i>Erysiphe graminis</i> PRINFC - PRINFC	Spring oats: phytotoxicity - general <i>Erysiphe graminis</i> : pest severity
GBSYZF7492019	Syntech Research	Pakenham	Winter oats	EPPO:PP 1/225(2)	20 M2	Foliar spray	Boom	22/05/2019	BBCH: 51 -	<i>Puccinia</i>	Winter oats: color - green leaf area

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	UK United Kingdom ORETO 362	Suffolk 52.28194 / 0.828315	Dalguise - - loamy sand	EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	4 RACOB Randomized arrangement within trial 4 positn Field	200 L/HA	sprayer - horizontal		51	coronata MIXED - MIXED	Winter oats: content - moisture Winter oats: content - protein Winter oats: hectolitre weight Winter oats: phytotoxicity - general Winter oats: thousand grain weight Winter oats: weight - fresh Winter oats: yield <i>Erysiphe graminis</i> : pest severity

Oats (AVESA) efficacy trial in the Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRPVZF8152018	PROMO-VERT S.A., Avignon, France BPE-093	Cazaux-Saves - 43.5415 / 0.973111	Winter oats Charmoise 10/11/2017 - RODRPL loamy clay sand	EPPO:PP 1/225(2) EPPO:PP 1/135(4) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	02/05/2018	BBCH: 37 - 43	<i>Puccinia coronata</i> LATENT - LATENT	Winter oats: color - green leaf area Winter oats: content - moisture Winter oats: content - protein Winter oats: hectolitre weight Winter oats: phytotoxicity - general Winter oats: thousand grain weight Winter oats: weight - fresh Winter oats: yield <i>Puccinia coronata</i> : pest severity <i>Septoria avenae triticea</i> : pest severity

Oats (AVESA) trials with no disease used to demonstrate crop safety in the Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FREPZF7442019	ESSAIS PLUS, Bozelles, France GEP 036	Senlis Le Sec France 50.043907 / 2.588906	Spring oats Ranch 04/04/2019 - - silt loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	16 M2 4 RACOB Outside trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	11/06/2019	BBCH: 49 - 49	-	Spring oats: content - moisture Spring oats: content - protein Spring oats: hectolitre weight Spring oats: phytotoxicity - general Spring oats: thousand grain weight Spring oats: weight - fresh Spring oats: yield
GBSYZF7502019	Syntech Reseach UK United Kingdom ORETO 362	Stapleford Hertford 51.81992 / 0.116264	Winter oats Mascani - - - loamy clay sand	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	20 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - horizontal	14/05/2019	BBCH: 39 - 39	-	Winter oats: color - green leaf area Winter oats: content - moisture Winter oats: content - protein Winter oats: hectolitre weight Winter oats: phytotoxicity - general Winter oats: thousand grain weight Winter oats: weight – fresh Winter oats: yield

Oats (AVESA) trial with no disease used to demonstrate crop safety in the Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF7432019	SynTech Research France SAS, La Chapelle de Guinchay, France France	La Chapelle du Châtelard Ain 46.030903 / 5.034571	Winter oats Charmoise 25/10/2018 - -	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4)	15 M2 4 RACOB Randomized arrangement within	Foliar spray 200 L/HA	Boom sprayer - horizontal	16/05/2019	BBCH: 41 - 51	-	Winter oats: color - green leaf area Winter oats: content - moisture Winter oats: content - protein Winter oats: hectolitre weight Winter oats: phytotoxicity - general

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
	BPE-059		clay loam	Yes	trial 1 plot Field						Winter oats: thousand grain weight Winter oats: weight - fresh Winter oats: yield

Oats (AVESA) trials with low target disease and a non-target disease used to demonstrate crop safety in the Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
LTAKZF7472019	Lithuanian Institute of Agriculture, Akademija, Lithuania Lithuania AS4-13/02	Akademija Kedainiai 55.403568 / 23.870287	Spring oats Belinda 23/04/2019 - 1 Year loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - manually wheeled - horizontal	25/06/2019	BBCH: 61 - 65	<i>Helminthosporium avenae</i> MIXED - MIXED <i>Puccinia coronata</i> MIXED - MIXED	Spring oats: color - green leaf area Spring oats: content - moisture Spring oats: content - protein Spring oats: hectolitre weight Spring oats: phytotoxicity - general Spring oats: thousand grain weight Spring oats: weight - fresh Spring oats: yield <i>Helminthosporium avenae</i> : pest severity <i>Puccinia coronata</i> : pest severity
LTAKZF7482019	Lithuanian Institute of Agriculture, Akademija, Lithuania Lithuania AS4-13/02	Akademija Kedainiai 55.403568 / 23.870287	Spring oats Scorpion 23/04/2019 - 1 Year loam	EPPO:PP 1/225(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/026(4) EPPO:PP 1/135(4) Yes	25 M2 4 RACOB Randomized arrangement within trial 4 positn Field	Foliar spray 300 L/HA	Boom sprayer - manually wheeled - horizontal	25/06/2019	BBCH: 61 - 65	<i>Helminthosporium avenae</i> MIXED - MIXED	Spring oats: color - green leaf area Spring oats: content - moisture Spring oats: content - protein Spring oats: hectolitre weight Spring oats: phytotoxicity - general Spring oats: thousand grain weight Spring oats: weight - fresh Spring oats: yield <i>Helminthosporium avenae</i> : pest severity <i>Puccinia coronata</i> : pest severity

Winter wheat (TRZAW) trials used to generate samples for processing tests in the Maritime EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF8222019	Syntech Research France -	Indre et loir France 47.568039/0.80179	winter wheat Pastoral - - - loamy clay	EPPO:PP 1/243(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/135(4) CEB:218 Yes	16 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	07-May-19	BBCH 39 - 41	-	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield
FRSYZF8232019	Syntech Research France -	Eure Normandie 49.253502/1.09251	winter wheat Chevron - - - loamy clay	EPPO:PP 1/243(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/135(4) CEB:218 Yes	16 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	22-May-19	BBCH 41 - 45	-	Winter wheat: color - green leaf area Winter wheat: phytotoxicity - general

Winter wheat (TRZAW) trials used to generate samples for processing tests in the Mediterranean EPPO climatic zone

Test Report	Test Facility Country GEP Acc no.	Trial Location Trial Region Trial GPS (Y/Xcoord.)	Crop Cultivar Emerg. Date Perennial Age Plant/Prun S. Soil Type	Guidelines GEP	Plot Size No. of Reps Trial Design Untreat. Arrang. Sample Size Trial Type	Application Details					Target / Crop Assessed: Rating Data Type
						Method	Equipment	Appl. Date	Crop GS Leaf wall area	Target Name GS (DESC)	
FRSYZF8212019	Syntech Research France -	Occitanie Gers 43.578655/1.041315	winter wheat rebelde - - - silty clay	EPPO:PP 1/243(2) EPPO:PP 1/181(4) EPPO:PP 1/152(4) EPPO:PP 1/135(4) CEB:218 Yes	18 M2 4 RACOB Randomized arrangement within trial 1 plot Field	Foliar spray 200 L/HA	Boom sprayer - handheld - horizontal	24-Apr-19	BBCH 45 - 45	-	Winter wheat: color - green leaf area Winter wheat: content - moisture Winter wheat: content - protein Winter wheat: hectolitre weight Winter wheat: phytotoxicity - general Winter wheat: thousand grain weight Winter wheat: weight - fresh Winter wheat: yield

Appendix 3 Comparability of conditions

This section aims to justify the comparability of agricultural conditions between the reference country Poland and Germany, Czech Republic and Slovakia for the application of the fungicide Amistar Max (A12916B).

According to the latest Polish guidance document ‘Arrangements on making an assessment or comments on plant protection products by authorized entities – efficacy of plant protection products’, Poland accepts trials from neighboring countries (Germany, Czech Republic and Slovakia), however, the comparison of conditions always must be presented and assessed.

The National Addendum of A12916B includes trials from Germany, Czech Republic and Slovakia from 2020-2023. These countries belong to the different EPPO zone than Poland, i.e. Poland is in the North-East EPPO zone, Germany and Czech Republic belong to the Maritime EPPO zone and Slovakia – to South-East EPPO zone.

The comparison of conditions of 17 efficacy trials from Germany from 2020-2021, 5 trials from Czech Republic from 2022-2023 and 2 trials from Slovakia from 2022 is presented. These trials were conducted in 15 different regions (11 in Germany, 3 in Czech Republic and 1 in Slovakia). The comparison is made to Wielkopolskie region in Poland.

The reports (R1-R15) were generated using latest RegPest application developed in collaboration of IUNG-PIB and PSOR.

Barley efficacy trials conducted in Germany in 2020-2021

Trial ID	Trial location	Region in Germany	Reference region in Poland	Report ID
DEBCZF8512021	Weeze, Nordrhein-Westfalen	Düsseldorf	Wielkopolskie (Polska)	R1
DEBCZF8532021	Trossin, Sachsen	Leipzig	Wielkopolskie (Polska)	R2
DESYZF6352021	Möckmühl-Ruchen, Baden-Württemberg	Stuttgart	Wielkopolskie (Polska)	R3
DEDS0F2892020	Beckedorf, Niedersachsen	Hannover	Wielkopolskie (Polska)	R4
DEDS0F3742020	Görlitz, Sachsen	Dresden	Wielkopolskie (Polska)	R5
DEDS0F4082020	Straubing, Bayern	Niederbayern	Wielkopolskie (Polska)	R6
DEDS0F9272020	Beckentin, Mecklenburg-Vorpommern	Mecklenburg-Vorpommern	Wielkopolskie (Polska)	R7

Barley efficacy trials conducted in Czech Republic in 2022-2023

Trial ID	Trial location	Region in Czech Republic	Reference region in Poland	Report ID
CZDITF1032022	Velká Bystrice, Olomoucký kraj	Stredni Morava	Wielkopolskie (Polska)	R12
CZDITF1042023	Velká Bystrice, Olomoucký kraj	Stredni Morava	Wielkopolskie (Polska)	R12
CZKUTF1052023	KUJAVY,	Moravskoslezsko	Wielkopolskie	R14

	Moravskoslezsky kraj		(Polska)	
CZBYTF1132022	Bystrice nad Pernštejnem, Vysocina	Jihovýchod	Wielkopolskie (Polska)	R15
CZPRTF1112023	Ivanovice na Hane, Jihomoravský kraj	Jihovýchod	Wielkopolskie (Polska)	R15

Barley efficacy trials conducted in Slovakia in 2022

Trial ID	Trial location	Region in Slovakia	Reference region in Poland	Report ID
SKBLTF1022022	Rastislavice, Nitriansky kraj	Zapadne Slovensko	Wielkopolskie (Polska)	R13
SKBLTF1052022	Rastislavice, Nitriansky kraj	Zapadne Slovensko	Wielkopolskie (Polska)	R13

Triticale efficacy trials conducted in Germany in 2020-2021

Trial ID	Trial location	Region in Germany	Reference region in Poland	Report ID
DESYZF6382020	Moosburg a.d. Isar, Bayern	Oberbayern	Wielkopolskie (Polska)	R8
DESYZF6392020	Göttingen, Niedersachsen	Braunschweig	Wielkopolskie (Polska)	R9
DEDSZF9282021	Dallmin, Brandenburg	Brandenburg - Nordost	Wielkopolskie (Polska)	R10
DESYZF6852021	Glückstadt, Schleswig-Holstein	Schleswig-Holstein	Wielkopolskie (Polska)	R11

Rye efficacy trials conducted in Germany in 2020-2021

Trial ID	Trial location	Region in Germany	Reference region in Poland	Report ID
DEDSZF9292020	Kremmin, Mecklenburg-Vorpommern	Mecklenburg-Vorpommern	Wielkopolskie (Polska)	R7
DEDSZF9302020	Werle, Mecklenburg-Vorpommern	Mecklenburg-Vorpommern	Wielkopolskie (Polska)	R7
DEBCZF6672021	Weeze, Nordrhein-Westfalen	Düsseldorf	Wielkopolskie (Polska)	R1
DEDSZF3182021	Döbeln, Sachsen	Leipzig	Wielkopolskie (Polska)	R2
DEDSZF9262021	Werle, Mecklenburg-Vorpommern	Mecklenburg-Vorpommern	Wielkopolskie (Polska)	R7
DEDSZF9272021	Neese, Mecklenburg-Vorpommern	Mecklenburg-Vorpommern	Wielkopolskie (Polska)	R7

Results

The conducted comparison of conditions shows a **high similarity** between Wielkopolskie region in Poland and Düsseldorf, Leipzig, Hannover, Dresden, Mecklenburg-Vorpommern, Braunschweig, Brandenburg – Nordost and Schleswig-Holstein regions in Germany, as well as Jihovýchod region in Czech Republic and Zapadne Slovensko region in Slovakia which means that there is a **very low risk** of different behavior of the same pesticide when applied in these regions.

The conducted comparison of conditions shows **moderately high similarity** between region Wielkopolskie in Poland and Stuttgart and Niederrhein in Germany, as well as Stredni Morava and

Moravskoslezsko regions in Czech Republic which means that there is a **low risk** of different behavior of the same pesticide when applied in these regions.

The conducted comparison of conditions shows **moderate similarity** between region Wielkopolskie in Poland and Oberbayern region in Germany which means that there is a **moderately low risk** of different behavior of the same pesticide when applied in these regions.

Assessment of conditions comparability between Poland - Germany, Poland – Czech Republic and Poland - Slovakia - barley efficacy trials from 2020-2023

Trial ID	Region in Germany, Czech Republic and Slovakia	Reference region in Poland	Similarity for expert weight in % points	Similarity for effective weight in % points	Assessment	Report ID
DEBCZF8512021	Düsseldorf (Germany)	Wielkopolskie (Polska)	78.69	79.47	High similarity	R1
DEBCZF8532021	Leipzig (Germany)	Wielkopolskie (Polska)	85.63	84.96	High similarity	R2
DESYZF6352021	Stuttgart (Germany)	Wielkopolskie (Polska)	65.71	65.25	Moderately high similarity	R3
DEDS0F2892020	Hannover (Germany)	Wielkopolskie (Polska)	76.1	76.4	High similarity	R4
DEDS0F3742020	Dresden (Germany)	Wielkopolskie (Polska)	88.18	87.59	High similarity	R5
DEDS0F4082020	Niederbayern (Germany)	Wielkopolskie (Polska)	69.49	68.29	Moderately high similarity	R6
DEDS0F9272020	Mecklenburg-Vorpommern	Wielkopolskie (Polska)	80.69	80.39	High similarity	R7
CZDITF1032022	Stredni Morava (Czech Republic)	Wielkopolskie (Polska)	71.14	70.15	Moderately high similarity	R12
CZDITF1042023						
SKBLTF1022022	Zapadne Slovensko (Slovakia)	Wielkopolskie (Polska)	77.34	78.11	High similarity	R13
SKBLTF1052022						
CZKUTF1052023	Moravskoslezsko (Czech Republic)	Wielkopolskie (Polska)	70.51	68.98	Moderately high similarity	R14
CZBYTF1132022	Jihovychod (Czech Republic)	Wielkopolskie (Polska)	78.49	77.5	High similarity	R15
CZPRTF1112023						

Assessment of conditions comparability between Poland - Germany - triticales efficacy trials from 2020-2021

Trial ID	Region in Germany	Reference region in Poland	Similarity for expert weight in % points	Similarity for effective weight in % points	Assessment	Report ID
DESYZF6382020	Oberbayern (Germany)	Wielkopolskie (Polska)	61.89	60.29	Moderate similarity	R8
DESYZF6392020	Braunschweig	Wielkopolskie	79.23	79.09	High	R9

	(Germany)	(Polska)			similarity	
DEDSZF9282021	Brandenburg – Nordost (Germany)	Wielkopolskie (Polska)	84.4	83.32	High similarity	R10
DESYZF6852021	Schleswig-Holstein (Germany)	Wielkopolskie (Polska)	81.54	82.2	High similarity	R11

Assessment of conditions comparability between Poland - Germany - rye efficacy trials from 2020-2021

Trial ID	Region in Germany	Reference region in Poland	Similarity for expert weight in % points	Similarity for effective weight in % points	Assessment	Report ID
DEDSZF9292020	Mecklenburg-Vorpommern (Germany)	Wielkopolskie (Polska)	80.69	80.39	High similarity	R7
DEDSZF9302020						
DEDSZF9262021						
DEDSZF9272021						
DEBCZF6672021	Düsseldorf (Germany)	Wielkopolskie (Polska)	78.69	79.47	High similarity	R1
DEDSZF3182021	Leipzig (Germany)	Wielkopolskie (Polska)	85.63	84.96	High similarity	R2

Conclusions

It can be concluded that trials conducted in referred regions of Germany, Czech Republic and Slovakia in terms of agricultural conditions are representative to Polish conditions and can be fully accepted for demonstration of efficacy performance. No significant differences in behaviour of plant protection products between these regions are expected.

The detailed reports are provided below.



R1.pdf



R2.pdf



R3.pdf



R4.pdf



R5.pdf



R6.pdf



R7.pdf



R8.pdf



R9.pdf



R10.pdf



R11.pdf



R12.pdf



R13.pdf



R14.pdf



R15.pdf