

FINAL REGISTRATION REPORT

Part B

Section 3

Efficacy Data and Information

Concise summary

Product code: CHR/F/SCORPIO 325 SC

Product name(s): Clapton 325 SC/ Scarp 325 SC

Chemical active substance(s):

difenoconazole 125 g/L

Azoxystrobin 200 g/L

Central Zone

Zonal Rapporteur Member State: Poland

CORE ASSESSMENT

(authorization)

Applicant: Innvigo Sp. z o.o.

Submission date: August 2025

MS Finalisation date: 11/2025

Version history

When	What
11/2023	Dossier sent for evaluation
03/2024	Applicant update
04/2024	Applicant update
05/2024	Applicant update
07/2025	Draft registration report provided by zRMS for commenting
08/2025	Applicant update new efficacy data sugar beet against <i>Erysiphe betae</i>
11/2025	Final RR

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

Transformation of the dRR (applicant version) into the RR (zRMS version)

Comments of zRMS:	The text highlighted in grey was provided by the zRMS.
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3.1 Summary and conclusions of zRMS on Section 3: Efficacy (KCP 6)

Abstract

Summary							
zRMS The submitted efficacy data (reports from field trials) fulfil requirements and conditions determined in the EPPO guidelines, the Commission Regulation (EU) No 545/2011 of 10 June 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the data requirements for plant protection products. The reports and data were submitted to support the evaluation for the authorization of CHR/F/SCORPIO 325 SC NE EPPO climate zone (Poland). CHR/F/SCORPIO 325 SC contains 125 g/l of the active substance – difenoconazole and 200 g/l of the active substance Azoxystrobin and is formulated as a suspension concentrate (SC). The plant protection product is going to be used in oilseed rape and sugar beet for the control of a wide range of diseases at a dose rate of 0,9 - 1,0 l/ha with maximum 2 application in season for oilseed rape. In the opinion of ZRMS, the minimum effective dose of 0,9 l/ha for oilseed rape - autumn/spring application, spring application for BOTRICI - and for sugar beet -RAMUBE, ERYSB- can be considered. For oilseed rape at spring application -SCLESC, ALTEBA- and for sugar beet -CERCBE- the minimal dose rate of 1,0 l/ha should be considered. The applicant submitted 45 reports showing the results in research into product efficacy carried out in 2021 - 2023 in PL on different cultivars of oilseed rape and sugar beet. <table border="1"> <tr> <td>winter oilseed rape autumn/spring application</td><td> • LEPTMA 0,9 L/HA (E) • ALTEBA 0,9 L/HA (E) • VERTLO 0,9 L/HA (R); 1,0 L/HA (R) </td></tr> <tr> <td>winter oilseed rape one spring application</td><td> • SCLESC 1,0 L/HA (E) • ALTEBA 1,0 L/HA (E) • BOTRICI 0,9 L/HA (E) </td></tr> <tr> <td>sugar beet</td><td> • CERCBE 1,0 L/HA (E) • RAMUBE 0,9 L/HA (E) • ERYSB 0,9 L/HA (E) </td></tr> </table> The number of trials for VERTLO in spring application on oilseed rape is not sufficient to state about efficacy of the product against this disease. The number of trials against VERTLO is sufficient to state about efficacy of the product against this disease, because this disease is consired minor disease in PL. Nevertheless efficacy was lower than 40%, that is why the use against VERTLO (one spring application) is not recommended for authorization. For ERYSB (sugar beet), 6 trials performed in 1 season were submitted for evaluation. Therefore, the Applicant has not submitted the required package of trials for evaluation. However the product controlled the disease well during the one season, therefore it is proposed to conditionally recognize the efficacy of the product against ERYSB with the need to submit 4-5 trials from the second season post-authorized, confirming the efficacy indicated in the opinion. After the commenting stage, the applicant submitted three additional efficacy trials conduted in PL, in 2024, to confirm efficacy of the product against ERYSB on sugar beet. Although fewer trials than required were submitted, it is proposed that this condition be considered fulfilled, as the product performed very efficiently against ERYSB (above 90%) in the trials presented. The applicant provided information on the resistance to two active substances. The presented strategy complies with the resistance management strategy recommended by FRAC. Nevertheless in case any new information which would change the resistance risk analysis regulatory authorities should be informed about it. CHR/F/SCORPIO 325 SC was safe to the crops on which it was applied as no phytotoxicity symptoms were		winter oilseed rape autumn/spring application	• LEPTMA 0,9 L/HA (E) • ALTEBA 0,9 L/HA (E) • VERTLO 0,9 L/HA (R); 1,0 L/HA (R)	winter oilseed rape one spring application	• SCLESC 1,0 L/HA (E) • ALTEBA 1,0 L/HA (E) • BOTRICI 0,9 L/HA (E)	sugar beet	• CERCBE 1,0 L/HA (E) • RAMUBE 0,9 L/HA (E) • ERYSB 0,9 L/HA (E)
winter oilseed rape autumn/spring application	• LEPTMA 0,9 L/HA (E) • ALTEBA 0,9 L/HA (E) • VERTLO 0,9 L/HA (R); 1,0 L/HA (R)						
winter oilseed rape one spring application	• SCLESC 1,0 L/HA (E) • ALTEBA 1,0 L/HA (E) • BOTRICI 0,9 L/HA (E)						
sugar beet	• CERCBE 1,0 L/HA (E) • RAMUBE 0,9 L/HA (E) • ERYSB 0,9 L/HA (E)						

observed in the efficacy tests. The product did not cause a negative impact on the yield of oilseed rape and sugar beet in the presence of disease.

The product CHR/F/SCORPIO 325 SC had no negative effect on oilseed rape and sugar beet quality and was safe for the germination of the grains of treated oilseed rape.

No problems is going to be linked to CHR/F/SCORPIO 325 SC use on succeeding and adjusted crops, if product uses in accordance with the recommendations.

According to the above, the plant protection product CHR/F/SCORPIO 325 SC is recommended to be approved to use according to the table of intended uses for CHR/F/SCORPIO 325 SC. The evaluation was carried out in accordance with the Uniform Principles.

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

PPP product name: Clapton 325 SC/ Scarp 325 SC Formulation type: SC ^(a, b)
product code: CHR/F/SCORPIO 325 SC
Active substance 1: difenoconazole Conc. of as 1: 125 g/l ^(c)
Active substance 2: azoxystrobin Conc. of as 2: 200 g/l ^(c)
Active substance 3: - Conc. of as 3: -
Safener: - Conc. of safener: - ^(c)
Synergist: - Conc. of synergist: - ^(c)
Applicant: PUH Chemirol Professional use: ☒
Zone(s): Central ^(d) Non professional use: ☐
Verified by MS: no

Field of use: fungicide

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)	ZRM's Conclusion
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	kg or L product / ha a) max. rate per appl. b) max. total rate per crop/season	g or kg as/ha 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)														
1	PL	Winter oilseed rape (BRSNW)	F	Phoma lingam, Alternaria brassicae, Verticillium longisporum	Spray, medium sprayer	Autumn, spring BBCH 14-29 - BBCH 31-55	a)1 b)2	min. 90	a) 0.9-1.0 l/ha b) 1.8-2.0 l/ha	a) 0.2925-0.325 kg a.s./ha (AZX 0.18-0.2 kg a.s./ha + DIF 0.1125-0.125 kg a.s/ha) b) 0.585-0.65 kg a.s./ha (AZX 0.36-0.4 kg a.s./ha + DIF 0.225-0.25 kg a.s/ha)	200-400 300	n/a		
2	PL	Winter oilseed rape (BRSNW)	F	Sclerotinia sclerotiorum, Botrytis cinerea, Alternaria brassicae, Verticillium longisporum	Spray, medium sprayer	Spring BBCH 61-69	a)1 b)1	n/a	a) 0.9-1.0 l/ha b) 0.9-1.0 l/ha	a) 0.2925-0.325 kg a.s./ha (AZX 0.18-0.2 kg a.s./ha + DIF 0.1125-0.125 kg a.s/ha) b) 0.2925-0.325 kg a.s./ha (AZX 0.18-0.2 kg a.s./ha + DIF 0.1125-0.125 kg a.s/ha)	200-400 300	n/a	- SCLESC 1,0 L/HA - ALTEBA 1,0 L/HA - BOTRICI 0,9 L/HA	
3	PL	Sugar beet (BEAVX)	F	Cercospora beticola, Ramularia beticola, Erysiphe betae.	Spray, medium sprayer	Spring BBCH 39-49	a)1 b)1	n/a	a) 0.8-0.9 l/ha b) 0.8-0.9 l/ha	a) 0.26-0.325 kg a.s./ha (AZX 0.16-0.2 kg a.s./ha + DIF 0.1-0.125 kg a.s/ha) b) 0.26-0.325 kg a.s./ha (AZX 0.16-0.2 kg a.s./ha + DIF 0.1-0.125 kg a.s/ha) a) 0.2925-0.325 kg a.s./ha (AZX 0.18-0.2 kg a.s./ha + DIF 0.1125-0.125 kg a.s/ha) b) 0.2925-0.325	200-400 300	n/a	- CERCBE 1,0 L/HA - RAMUBE 0,9 L/HA - ERYSBE 0,9 L/HA	

Product code: CHR/F/SCORPIO
Product name: Clapton 325 SC/ Scarp 325 SC
Part B – Section 3 - Core Assessment
Applicant version

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Template for chemical PPP
Version August 2025

[illegible]

Minor uses according to Article 51 (zonal uses)													
6	PL	Spring oilseed rape (BRSNS), Sinapis alba (SINAL), Papaver somniferum (PAPSO), Glycine max (GLXMA), Helianthus annuus (HELAN), Cucurbita pepo (CUUPE) (seed production only), Linum usitatissimum (LIUUT) - technical and seed production, Cannabis sativa (CNISA) -technical and seed production	F	Sclerotinia sclerotiorum, Alternaria brassicace, Leptosphaeria maculans, Alternaria brassicicola, Botrytis cinerea, Fusarium sp., Fusarium oxysporum, Septoria glycines, Cercospora sojina, Alternaria helianthin, Diaporthe helianthin, Golovinomyces cichoracearum, Alternaria alternata, Golovinomyces orontii, Melampsora lini, Septoria cannabis,	Spray, medium sprayer	Spring BBCH 14-69	a)1 b)2	min. 90	a) 0.9-1.0 l/ha b) 1.8-2.0 l/ha	a) 0.2925-0.325 kg a.s./ha (AZX 0.18-0.2 kg a.s./ha + DIF 0.1125-0.125 kg a.s/ha) b) 0.585-0.65 kg a.s./ha (AZX 0.36-0.4 kg a.s./ha + DIF 0.225-0.25 kg a.s/ha)	200-400	n/a	
7	PL	Brassica napus subsp. rapifera (BRSNA)(roots only), Cichorium intybus (CICIN) (roots only), Beta vulgaris subsp. vulgaris (BEAVD), Brassica napus subsp. rapifera (BRSNA), Armoracia rusticana (ARWLA), Apium graveolens var. rapaceum (APUGR)	F	Alternaria sp, Erysiphe heraclei, Sclerotinia sclerotiorum, Septoria apiicola, Botrytis cinerea, Erysiphe betae, Cercospora beticola Uromyces beticola, Alternaria brassicicola, Erysiphe cruciferarum, Turnip mosaic virus, Albugo candida, Leptosphaeria maculans, Botryotinia fuckeliana, Alternaria radicina	Spray, medium sprayer	Spring BBCH 39-49	a)1 b)1	n/a	a) 0.8-1.0 l/ha b) 0.8-1.0 l/ha	a) 0.26-0.325 kg a.s./ha (AZX 0.16-0.2 kg a.s./ha + DIF 0.1-0.125 kg a.s/ha) b) 0.26-0.325 kg a.s./ha (AZX 0.16-0.2 kg a.s./ha + DIF 0.1-0.125 kg a.s/ha)	200-400	n/a	
8	PL	Ornamental nursery plants,	F	Podosphaeras spp., Gymnosporangium sp.,	Spray, medium	Spring the first	a)1 b)2	14	a) 1.0 l/ha b) 2.0 l/ha	a) 0.325 kg a.s./ha (AZX0.2	300-1200	n/a	

		forest nursery plants, renewals, afforestation and plantations of forest trees		<i>leafspot, Lophodermium seditiosum, Colletotrichum gloeosporioides, diseases caused by soil pathogens</i>	sprayer	symptoms of infection				kg a.s./ha + DIF 0.125 kg a.s/ha) b) 0.65 kg a.s./ha (AZX0.4 kg a.s./ha + DIF 0.25 kg a.s/ha)				
9	PL	Energetic plants, <i>Salix viminalis (SAXVI)</i> , <i>Wicker (ISAXG)</i>	F	<i>Podosphaeras spp., Gymnosporangium sp., leafspot, Lophodermium seditiosum, Colletotrichum gloeosporioides, diseases caused by soil pathogens</i>	Spray, medium sprayer	Spring the first symptoms of infection	a)1 b)2	14	a) 1.0 l/ha b) 2.0 l/ha	a) 0.325 kg a.s./ha (AZX0.2 kg a.s./ha + DIF 0.125 kg a.s/ha) b) 0.65 kg a.s./ha (AZX0.4 kg a.s./ha + DIF 0.25 kg a.s/ha)	300-1200	n/a		
10	PL	<i>Nicotiana tabacum (NIOTA)</i>	F	<i>Alternaria spp., Golovinomyces cichoracearum</i>	Spray, medium sprayer	Spring the first symptoms of infection	a)1 b)2	14	a) 1.0 l/ha b) 2.0 l/ha	a) 0.325 kg a.s./ha (AZX0.2 kg a.s./ha + DIF 0.125 kg a.s/ha) b) 0.65 kg a.s./ha (AZX0.4 kg a.s./ha + DIF 0.25 kg a.s/ha)	300-1200	n/a		
Minor uses according to Article 51 (interzonal uses)														
11														
12														

CHR/F/SCORPIO 325 SC - Clapton 325 SC/ Scarp 325 SC

- | | | |
|-------------------------------|---|---|
| Remarks table heading: | <p>(a) e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)</p> <p>(b) Catalogue of pesticide formulation types and international coding system CropLife International Technical Monograph n°2, 6th Edition Revised May 2008</p> <p>(c) g/kg or g/l</p> | <p>(d) Select relevant</p> <p>(e) Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1</p> <p>(f) No authorization possible for uses where the line is highlighted in grey, Use should be crossed out when the notifier no longer supports this use.</p> |
|-------------------------------|---|---|

Remarks	1	Numeration necessary to allow references	7	Growth stage at first and last treatment (BBCH Monograph, Growth Stages of Plants, 1997, Blackwell, ISBN 3-8263-3152-4), including where relevant, information on season at time of application
columns:	2	Use official codes/nomenclatures of EU Member States	8	The maximum number of application possible under practical conditions of use must be provided.
	3	For crops, the EU and Codex classifications (both) should be used; when relevant, the use situation should be described (e.g. fumigation of a structure)	9	Minimum interval (in days) between applications of the same product
	4	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	10	For specific uses other specifications might be possible, e.g.: g/m ³ in case of fumigation of empty rooms. See also EPPO-Guideline PP 1/239 Dose expression for plant protection products.
	5	Scientific names and EPPO-Codes of target pests/diseases/ weeds or, when relevant, the common names of the pest groups (e.g. biting and sucking insects, soil born insects, foliar fungi, weeds) and the developmental stages of the pests and pest groups at the moment of application must be named.	11	The dimension (g, kg) must be clearly specified. (Maximum) dose of a.s. per treatment (usually g, kg or L product / ha).
	6	Method, e.g. high volume spraying, low volume spraying, spreading, dusting, drench Kind, e.g. overall, broadcast, aerial spraying, row, individual plant, between the plants - type of equipment used must be indicated.	12	If water volume range depends on application equipments (e.g. ULVA or LVA) it should be mentioned under "application: method/kind".
			13	PHI - minimum pre-harvest interval
			14	Remarks may include: Extent of use/economic importance/restrictions
*	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

This document summarizes the information related to the efficacy of the product CHR/F/SCORPIO containing active substances azoxystrobin and difenoconazole.

CHR/F/SCORPIO applies in the Central Registration Zone for the registration of in winter oilseed rape and sugar beet at autumn and spring applied once or twice a per season:

- winter oilseed rape: twice per season at BBCH 14-29 -BBCH 31-55 or once per season at BBCH 61-69, at the maximum rate of 2 x 180 - 200 g a.s./ha azoxystrobin and 2 x 112.5 - 125 g a.s./ha difenoconazole per application or at the maximum rate of 180 - 200 g a.s./ha azoxystrobin and 112.5 - 125 g a.s./ha difenoconazole per application for the the control of most important fungal diseases in winter oilseed rape.
- sugar beet: once per season at BBCH 39-49 at the maximum rate of 160 - 200 g a.s./ha azoxystrobin and 100 - 125 g a.s./ha difenoconazole per application for the the control of most important fungal diseases in sugar beet.

General information:

Description of the plant protection product

Marketing name:

product submitted to registration under three different marketing names: Clapton 325 SC/ Scarp 325 SC

Formulants content:

The information concerning ingredients of product CHR/F/SCORPIO are included in the confidential part of the registration dossier: Registration Report – Part C.

Formulation of use:

SC – Suspension concentrate

General information on the plant protection product:

CHR/F/SCORPIO is to be applied in autumn and spring or spring:

- winter oilseed rape: once per season at BBCH 61-69 or twice per season at A: BBCH 14-29, B: BBCH 31-55
- sugar beet: once per season at BBCH 39-49.

The suggested dose of the product:

Used solo:

0.9-1.0 L/ha once a season in winter oilseed rape which are corresponding to 180-200 g a.s./ha azoxystrobin and 112,5-125 g a.s./ha difenoconazole.

0.8-1.0 L/ha once a season in sugar beet which are corresponding to 160-200 g a.s./ha azoxystrobin and 100-125 g a.s./ha difenoconazole.

2 x 0.9-1.0 L/ha twice a season in winter oilseed rape which are corresponding to 360-400 g a.s./ha azoxystrobin and 225-250 g a.s./ha difenoconazole.

CHR/F/SCORPIO containing difenoconazole and azoxystrobin as the active substance is prepared for the use in agricultural practice as a fungicide in the form SC – Suspension concentrate.

Information on the composition of product CHR/F/SCORPIO are included in the confidential part of the registration dossier: Registration Report – Part C.

Description of active substances

The descriptions of active substances will be provided in Section 1,2 4 to 8 and Part C.

Mode of action

Active substance:

Difenoconazole 125 g/l

Chemical name (IUPAC):

3-chloro-4-[(2RS,4RS;2RS,4SR)-4-methyl-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-2-yl]phenyl 4-chlorophenyl ether

Chemical name (CA): 1-[2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole

Difenoconazole is a systemic triazole fungicide

According to the Fungicide Resistance Action Committee (FRAC) difenoconazole is included in FRAC G1 – medium risk, difenocoazole is C14- demethylase in sterol, biosynthesis DMI-fungicides (DeMethylation Inhibitors).

SBI-fungicides that inhibit the C14 demethylation step within fungal sterol biosynthesis are now commonly characterised as DeMethylation-Inhibitors (Abbreviation: DMI's). Chemically, DMI's belong to different classes. Beside triazoles, numerous imidazoles, pyridines and pyrimidine all have been shown to act as demethylation inhibitors. Typically, DMI's have a broad spectrum of activity against a range of economically important pathogens on arable crops, top fruit, vines, plantation crops, etc.

Difenoconazole is a systemic triazole fungicide used for long-lasting preventative and curative broad-spectrum control of cereal, fruit and vegetable diseases including powdery mildew, rust, scab and leaf spots. It acts by interference with the ergosterol biosynthesis in target fungi by inhibition of the C-14-demethylation of sterols, which leads to morphological and functional changes of fungal cell membrane. Difenoconazole is a systemic triazole fungicide that controls a broad-spectrum of foliar, seed-spectrum of foliar, seed and soil-borne diseases, caused by Ascomycetes, Basidiomycetes and Deuteromycetes in cereals, soya, rice, grapes, pome fruit, stone fruit, potatoes, sugar beet and several vegetable and ornamental crops. It is applied by foliar spray or seed treatment.
(reference: DAR_01_vol.1)

Azoxystrobin 200 g/L

Chemical name (IUPAC): methyl (E)-2-{2[6-(2-cyanophenoxy)pyrimidin-4- yloxy]phenyl}-3-methoxyacrylate (azoxystrobin)

CAS no 131860-33-8

Chemical group: methoxy-acrylates

According to DAR (DRAFT ASSESMENT REPORT B.3.1.1) azoxystrobin is a broad spectrum fungicide for the control of many plant diseases. It has the same biochemical mode of action as the naturally occurring strobilurins and is structurally related to them. Azoxystrobin ia a β -methoxyacrylate. It is included in the same chemical class as a trifloxystrobin, dimoxystrobin, fluxastrobin, picoxystrobin, pyraclostrobin and trifloxystrobin. The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control od diseases from Ascomycetes, Basidiomycetes, Deutero mycetes and Oomycetes. Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration (DAR B.3.1.2)

Table 3.2-1: Details of the active substances

Active substance	Difenoconazole	Azoxystrobin	Active substance 3
Concentration (Unit: g/kg or g/L...)	125 g/L	200 g/L	n/a
Chemical group	triazole	methoxy-acrylates	n/a
Mode of action	Inhibitor of fungal sterols biosynthesis (DMI)	acts by inhibiting electron transport consequently inhibiting fungal respiration	n/a
Biological action	Difenoconazole is a systemic triazole fungicide used for long-lasting preventative and curative broad-spectrum control of cereal, fruit and vegetable diseases including powdery mildew, rust, scab and leaf spots. It acts by interference with the ergosterol biosynthesis in target fungi by inhibition of the C-14-demethylation of sterols, which leads to morphological and functional changes of fungal cell membrane. Difenoconazole is a systemic triazole fungicide that controls a broad-spectrum of foliar, seed-spectrum of foliar, seed and soil-borne diseases, caused by Ascomycetes, Basidiomycetes and Deuteromycetes in cereals, soya, rice, grapes, pome fruit, stone fruit, potatoes, sugar beet and several vegetable and ornamental crops. It is applied by foliar spray or seed treatment.	The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control of diseases from <i>Ascomycetes</i>, <i>Basidiomycetes</i>, <i>Deuteromycetes</i> and <i>Oomycetes</i>. Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration	n/a

Description of the plant protection product

Formulation of use:

SC – Suspension concentrate

CHR/F/SCORPIO containing 125 g/l difenoconazole and 200g/L azoxystrobin as the active substances is prepared for the use in agricultural practice as a fungicide in the form SC – Suspension concentrate. CHR/F/SCORPIO is to be applied in spring or autumn and spring postemergence:

- winter oilseed rape: twice per season at BBCH 14-29 -BBCH 31-55 or once per season at BBCH 61-69,
- sugar beet: once per season at BBCH 39-49.

Table 3.2-2: Simplified table of currently registered uses and requested uses for the product code.

Uses		Member State	Currently registered rate(s)		Comments / Other relevant details on GAPs
Crop(s)	Target(s)		Max rate per appl.	Max rate per crop/season	
Sugar beet	<i>Cercospora beticola</i> , <i>Ramularia beticola</i> , <i>Erysiphe betae</i>	PL, CZ	1	1	
Winter oilseed rape	<i>Alternaria alternata</i> , <i>Sclerotinia sclerotiorum</i> , <i>Verticillium longisporum</i> , <i>Phoma lingam</i> , <i>Botryotinia fuckeliana</i> ,	PL, CZ	1	1	

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

Description of the target pests

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

EPPO code	Scientific name	Common name*
ERYSBE	<i>Erysiphe betae</i>	n/a
RAMUBE	<i>Ramularia beticola</i>	n/a
CERCBE	<i>Cercospora beticola</i>	n/a
BOTRICI	<i>Botryotinia fuckeliana</i>	n/a
LEPTNA	<i>Plenodomus lingam/Phoma lingam</i>	n/a
ALTEBA	<i>Alternaria brassicace</i>	n/a
SCLESC	<i>Sclerotinia sclerotiorum</i>	n/a
VERTLO	<i>Verticillium longisporum</i>	n/a

* optional

Table 3.2-4: Major / minor status of intended uses (for all cMS and zRMS).

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
Sugar beet	PL, CZ	-	<i>Erysiphe betae</i>	PL, CZ	-
			<i>Ramularia beticola</i>	PL, CZ	-
			<i>Cercospora beticola</i>	PL, CZ	-
Oilseed rape	PL, CZ	-	<i>Alternaria brassicace</i>	PL, CZ	-

			<i>Sclerotinia sclerotiorum</i>	PL, CZ	-
			<i>Phoma lingam</i>	PL, CZ	
			<i>Botryotina fuckeliana</i>	PL, CZ	
			<i>Verticillium longisporum</i>	-	PL, CZ

Compliance with the Uniform Principles

The overall assessment was performed according to the uniform principles. There were no deviations from the EPPO guidelines with the trials conducted in North-East EPPO zone.

Information on trials submitted (3.1 Efficacy data)

The 48 trials (winter oilseed rape 30 trials, sugar beet 18 trials) have been carried out in 2021, 2022, 2023 and 2024 in the North-East EPPO zone within the Central registration zone to evaluate the efficacy of applied at the proposed label rate of 200 g a.s./ha azoxystrobin and 125 g a.s./ha difenoconazole for the diseases control in winter oilseed rape and sugar beet (Table 3.2 6). Trials were conducted in the main winter oilseed rape and sugar beet in the North-East EPPO zone in Poland.

Table 3.2-5: Presentation of trials efficacy trials

Sugar beet

Crop(s) *	Target(s)*	Country	Years	Type of trial**	Number of trials		GEP, non-GEP, official***	Comments (any other relevant information)
					(number of valid trials)			
					North- East zone	-		
Sugar beet	Cercospora beticola	Poland	2021	E	2(2)	-	GEP	-
		Poland	2023	E	9(9)	-	GEP	-
	TOTAL	-	2021-2023	-	11(11)	-	-	-
Sugar beet	Ramularia beticola	Poland	2021	E	1(1)	-	GEP	-
		Poland	2023	E	8(8)	-	GEP	-
	TOTAL	-	2021-2023	-	9(9)	-	-	-
Sugar beet	Erysiphe betae	Poland	2023	E	6(6)	-	GEP	-
		Poland	2024	E	3(3)	-	GEP	-
	TOTAL	-	2023-2024	-	9(9)	-	-	-
TOTAL			2021-2024	-	29(29)	-	-	-

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-emergence vs post-emergence, spring vs autumn).

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

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

Winter oilseed rape autumn and spring application

Crop(s) *	Target(s)*	Country	Years	Type of trial**	Number of trials		GEP, non-GEP, official***	Comments (any other relevant information)
					(number of valid trials)			
					North- East zone	-		
Winter oilseed rape	Alternaria brassicae	Poland	2021/22	E	1(1)	-	GEP	-
		Poland	2022/23	E	9(9)	-	GEP	-
	TOTAL	-	2021-2023	-	10(10)	-	-	-
Winter oilseed rape	Plenodomus lingam/Phoma lingam	Poland	2021/22	E	3(3)	-	GEP	-
		Poland	2022/23	E	9(9)	-	GEP	-
			2021-2023		12(12)			
Winter oilseed rape	Verticillium longisporum	Poland	2021/22	E	4(4)	-	GEP	-
		Poland	2022/23	E	3(3)			
	TOTAL	-	2021-2023	-	7(7)	-	-	-
TOTAL			2021-2023	-	29(29)	-	-	-

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence vs post-emergence, spring vs autumn).

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

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

Winter oilseed rape spring application

Crop(s) *	Target(s)*	Country	Years	Type of trial**	Number of trials		GEP, non-GEP, official***	Comments (any other relevant information)
					(number of valid trials)			
					North- East zone	-		
Winter oilseed rape	<i>Sclerotinia sclerotiorum</i>	Poland	2021	E	2(2)	-	GEP	-
		Poland	2023	E	8(8)	-	GEP	-
	TOTAL	-	2021-2023	-	10(10)	-	-	-
Winter oilseed rape	<i>Alternaria brassicae</i>	Poland	2021	E	2(2)	-	GEP	-
		Poland	2023	E	5(5)	-	GEP	-
	TOTAL	-	2021-2023	-	7(7)	-	-	-
Winter oilseed rape	<i>Verticillium longisporum</i>	Poland	2023	E	4(4)	-	GEP	-
	TOTAL		2023		4(4)			
Winter oilseed rape	<i>Botryotina fuckeliana</i>	Poland	2021	E	2(2)	-	GEP	-
		Poland	2023	E	5(5)	-	GEP	-
	TOTAL	-	2021-2023	-	7(7)	-	-	-
TOTAL			2021-2023	-	28(24)	-	-	-

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence vs post-emergence, spring vs autumn).

** 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	Active substance(s)	Formulation		Registered application	Application	Remark ⁽⁴⁾
					Type ⁽²⁾	Concentration of a.s.	rate ⁽³⁾	rate in trials (per treatment)	
winter oilseed rape, sugar beet	Amistar Gold Max.	Poland	R - 5/2023d z dnia 28.02.2023 r., R - 13/2019wu z dnia 18.03.2019 r.	difenoconazole	SC - Suspension concentrate	125 g/l	1,0 l/ha	1,0 l/ha	-
				azoxystrobin		200 g/l			

(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 authorized 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)

Preliminary studies on product CHR/F/SCORPIO 325 SC were not carried out because this fungicide contains difenoconazole 175 g/L + azoxystrobin 200 g/L, which are a well-known active substance that has been used for many years in agricultural practice.

According to EPPO PP1/225(2) lower doses have been tested in the efficacy studies, therefore no specific studies were conducted to fill this data point.

comments of ZRMS: dRR point 3.2.1 Preliminary tests (KCP 6.1)

Preliminary range finding tests are not reported. The active substances difenoconazol and azoxystrobin have well been known and used in many authorised products with a known range of action.

Summary and conclusions on the preliminary trials

According to EPPO PP1/225(2) lower doses have been tested in the efficacy studies, therefore no specific studies were conducted to fill this data point.

3.2.2 Minimum effective dose tests (KCP 6.2)

No specific studies were conducted to fill this data point.

According to EPPO PP1/225(2) lower doses have been tested in the efficacy studies, therefore the minimum effective trials were not conducted.

Winter oilseed rape application autumn and spring

16 field trials were established in order to determine the minimum effective dose for the control of the diseases (except for *Verticillium longisporum* disease, where the product reduced the occurrence of the disease) in winter oilseed rape. CHR/F/SCORPIO 325 SC was tested at:

0.7, 0.8, 0.9 and 1.0 L/ha twice per season at A: BBCH 14-29, B: BBCH 31-55 in winter oilseed rape for the control of diseases. The rates reflect the proposed label rate of CHR/F/SCORPIO 325 SC, in accordance with the EPPO standard PP 1/225 'Minimum effective dose'.

A summary of the dose response results is provided in Table 3.2 9a.

Table 3.2-7a: Minimum effective dose. Efficacy of CHR/F/SCORPIO 325 SC at proposed label rate, at 0.9-1.0 L/ha dose rates at the at the timing of assessment against diseases in winter oilseed rape

Grouping*	Number of trials	Infestation in the untreated control (unit)		Efficacy obtained with CHR/F/SCORPIO 325 SC at rate																	
				0.7 L/ha			0.8 L/ha			0.9 L/ha			1.0 L/ha			No. of trials where PPP at 0.7 L/ha is >, < or =, compared to the 0.9 L/ha = : ± 5% control			No. of trials where PPP at 0.8 L/ha is >, < or =, compared to the 0.9 L/ha = : ± 5% control		
				(70% of full rate)			(80% of full rate)			(90% of full rate)			(full rate)								
				Mean	Min & Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	>	=	<	>
<i>Plenodomus lingam/Phoma lingam - stem</i>	7	20.89	10.7 & 30.6	52.95	49.20	56.00	65.27	55.20	71.80	72.64	61.80	78.20	77.71	62.70	82.70	0	0	4	0	3	4
<i>Plenodomus lingam/Phoma lingam – leaf 14-28 DA-A autumn</i>	6	8.80	6.1 & 13.1	73.20	66.90	81.90	81.34	75.60	89.80	84.83	80.70	87.70	86.90	82.90	93.80	0	4	2	0	6	0
<i>Plenodomus lingam/Phoma lingam – leaf 14-28 DA-A spring</i>	6	14.40	7.1 & 22.5	77.89	57.10	87.70	87.12	74.60	93.20	90.96	82.10	95.50	93.98	82.70	98.10	0	1	5	0	4	6
<i>Alternaria brassicae – leaf 14-28 DA-A autumn</i>	5	5.50	5.1 & 6.5	71.73	64.00	77.40	83.00	70.60	88.80	92.02	83.40	97.60	94.38	83.90	100.00	0	0	5	0	2	3
<i>Alternaria brassicae – leaf 14 DA-A-28 spring</i>	5	15.80	9.1 & 25.6	73.89	62.99	84.40	85.43	75.14	92.10	90.89	86.16	94.50	93.15	85.20	96.50	0	0	5	0	2	3
<i>Alternaria brassicae - pod</i>	4	12.53	5.9 & 22.7	58.37	42.40	69.80	72.98	54.40	85.80	80.63	67.50	96.00	85.58	74.90	100.00	0	1	2	0	1	3
<i>Verticillium longisporum - stem</i>	7	32.61	5.8 & 74.9	34.47	18.40	44.20	35.56	15.00	60.30	44.16	24.10	61.00	58.50	32.70	77.50	0	1	2	0	1	6

Winter oilseed rape application spring

14 field trials were established in order to determine the minimum effective dose for the control of the diseases (except for *Verticillium longisporum* disease, where the product reduced the occurrence of the disease) in winter oilseed rape. CHR/F/SCORPIO 325 SC was tested at: 0.8, 0.9 and 1.0 L/ha once per season at BBCH 61-69 in winter oilseed rape for the control of diseases. The rates reflect the proposed label rate of CHR/F/SCORPIO 325 SC, in accordance with the EPPO standard PP 1/225 'Minimum effective dose'.

A summary of the dose response results is provided in Table 3.2 9b.

Table 3.2-8b: Minimum effective dose. Efficacy of CHR/F/SCORPIO 325 SC at proposed label rate, at 0.9-1.0 L/ha dose rates at the timing of assessment against diseases in winter oilseed rape

Grouping*	Number of trials	Infestation in the untreated control (unit)		Efficacy obtained with CHR/F/SCORPIO 325 SC at rate											
				0.8 L/ha			0.9 L/ha			1.0 L/ha			No. of trials where PPP at 0.8 L/ha is >, < or =, compared to the 0.9 L/ha = ± 5% control		
				(80% of full rate)			(90% of full rate)			(full rate)					
		Mean	Min & Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	>	=	<
<i>Alternaria brassicae</i> - leaf	2	5,65	5.6 & 5.7	68.20	58.60	77.80	71.10	60.90	81.30	79.60	67.30	91.90	0	2	0
<i>Alternaria brassicae</i> - stem	3	6,30	6.3 & 6.3	88.00	84.00	92.00	94.67	92.00	96.00	100.00	100.00	100.00	0	3	0
<i>Alternaria brassicae</i> - pod	5	12,12	5 & 19.9	69.55	43.30	94.30	76.82	55.50	95.00	84.60	62.10	100.00	0	3	2
<i>Sclerotinia sclerotiorum</i> - stem	10	29,84	11.3 & 87.0	63.02	14.70	84.40	76.42	45.50	92.20	83.72	61.90	96.10	0	5	5
<i>Sclerotinia sclerotiorum</i> - pod	3	9,63	6.3 & 13.8	86.40	85.50	88.00	95.67	92.70	100.00	98.43	97.10	100.00	0	3	0
<i>Botrytis cinerea</i> - leaf	2	9,75	5.7 & 13.8	67.65	65.10	70.20	74.60	74.30	74.90	83.30	81.30	85.30	0	0	2
<i>Botrytis cinerea</i> - stem	4	13,65	11.5 & 16.0	78.68	54.20	89.80	87.80	66.70	95.70	95.93	89.60	98.30	0	4	0
<i>Botrytis cinerea</i> - pod	5	18,58	6.1 & 37.5	78.06	57.00	90.70	86.22	71.60	96.70	91.56	82.20	98.70	0	3	2
<i>Verticillium longisporum</i> - stem	4	31,83	11.0 & 78.5	22.53	14.paž	31.30	34.65	23.00	41.50	39.18	14.30	51.20	0	2	2

Sugar beet

15 field trials were established in order to determine the minimum effective dose for the control of the diseases in sugar beet. CHR/F/SCORPIO 325 SC was tested at: 0.6, 0.8, 0.9 and 1.0 L/ha once per season at BBCH 39-49 in sugar beet for the control of diseases. The product was effective in doses of 0.9 l/ha (for the *Cercospora beticola* disease the effectiveness was a slightly lower level on 78,9%) against these major diseases. The rates reflect the proposed label rate of CHR/F/SCORPIO 325 SC, in accordance with the EPPO standard PP 1/225 'Minimum effective dose'.

A summary of the dose response results is provided in Table 3.2 9c.

Table 3.2-9c: Minimum effective dose. Efficacy of CHR/F/SCORPIO 325 SC at proposed label rate, at 0.8-1.0 L/ha dose rates at the timing of assessment against diseases in sugar beet

Grouping*	Number of trials	Infestation in the untreated control (unit)		Efficacy obtained with CHR/F/SCORPIO 325 SC at rate												No. of trials where PPP at 0.6 L/ha is >, < or =, compared to the 0.9 L/ha = : ± 5% control			No. of trials where PPP at 0.8 L/ha is >, < or =, compared to the 0.9 L/ha = : ± 5% control		
				0.6 L/ha			0.8 L/ha			0.9 L/ha			1.0 L/ha								
				(60% of full rate)			(80% of full rate)			(90% of full rate)			(full rate)								
		Mean	Min & Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	>	=	<	>	=	<
Cercospora beticola 15-20 DA-A	4	12	9.4 & 17.8	69.1	58.8	79.2	76.7	64.2	84.2	79.5	66.1	84.7	87.8	79.4	92.0	0	3	1	0	4	0
Cercospora beticola 30-40 DA-A	10	11.9	5.0 & 35.9	62.4	40.6	78.0	71.5	48.7	89.4	78.3	57.3	89.6	85.9	69.4	93.7	0	2	8	0	6	4
Ramularia beticola 15-20 DA-A	4	13	10.3 & 15.3	67.9	60.0	78.7	77.7	73.2	85.2	83.1	80.9	86.3	87.5	86.1	89.3	0	2	2	0	4	0
Ramularia beticola 30-40 DA-A	8	12.3	5.3 & 18.4	66.6	38.5	80.7	77.7	58.5	89.0	82.5	67.4	93.1	89.8	80.7	97.2	0	1	7	0	7	1
Erysiphe betae 14-20 DA-A	5	11.24	7.1 & 19.27	71.04	38.7	87.9	84.0	66.1	92.4	86.76	75	94.8	90.66	79.8	96.2	0	1	4	0	5	0
Erysiphe betae 30-40 DA-A	7	12	5.4 & 26.6	78.4	70.3	89.2	86.9	77.4	92.7	87.3	80.5	93.9	94.9	89.7	97.6	0	2	5	0	5	2

Summary and conclusions on the minimum effective dose

According to the presented results, the doses of 0.9 L/ha of CHR/F/SCORPIO 325 SC provided the optimum overall control and should be considered as effective against these major diseases (except for *Verticillium longisporum* disease, where the product reduced the occurrence of the disease) in winter oilseed rape and in sugar beet.

The minimum effective dose for the uses in winter oilseed rape one application at spring and two applications autumn/spring and for sugar beet was the dose 0.9 l/ha. Taking into account the average effectiveness from individual assessment dates and the average effectiveness from all assessments in total, the dose of 0.9 l/ha showed an effectiveness of over 80% in all crops, except for the control of the *Cercospora beticola* disease, which was controlled at a slightly lower level 78,9%.

As a result, the proposed rates of 0.9-1.0 L/ha of CHR/F/SCORPIO 325 SC in winter oilseed rape and in sugar beet for Poland should be considered the minimum effective dose to deliver broad spectrum control of targets under a wide range of environmental conditions. In case of higher disease pressure, use a higher dose

comments of ZRMS: dRR point 3.2.2 Minimum effective dose tests (KCP 6.2)

The claimed dose rate is 0,9 l/ha

NE EPPO climate zone (PL)

The dose justification of CHR/F/SCORPIO 325 SC has been supported by data from:

- 16 efficacy trials on oilseed rape (autumn/spring application)
- 14 efficacy trials on oilseed rape (spring application)
- 125-~~125~~ efficacy trials on sugar beet

for which efficacy of CHR/F/SCORPIO 325 SC is claimed. Efficacy of the claimed dose rate 0,9 l/ha was compared with the reduced dose rates of: 0,7 l/ha, 0,8 l/ha (oilseed rape autumn/spring application); 0,8 l/ha (oilseed rape spring application); 0,6 l/ha, 0,7 l/ha, 0,8 l/ha (sugar beet). Trials were conducted in 2021, 2022, 2023, 2024 in PL.

In the NE EPPO climate zone efficacy trials, CHR/F/SCORPIO 325 SC at the dose rate of 0,9 l/ha performed on a higher level than the lower dose rates. The product controlled all diseases at the level about 80% or more on oilseed rape (autumn/spring application) and on sugar beet. For some disease on oilseed rape at spring application and on sugar beet, the level of efficacy about 80% or more was presented at dose rate 1,0 l/ha. In the opinion of ZRMS, the minimum effective dose of 0,9 l/ha for oilseed rape - autumn/spring application, spring application for BOTRICI- and for sugar beet -RAMUBE, ERYSB- can be considered. For oilseed rape at spring application -SCLESC, ALTEBA- and for sugar beet -CERCBE- the minimal dose rate of 1,0 l/ha should be considered.

The product was not effective against *Verticillium longisporum* as it reduced the occurrence of the disease.

3.2.3 Efficacy tests (KCP 6.2)

Materials and methods

The applicant submitted 48 trials (winter oilseed rape 30 trials, sugar beet 18 trials) showing the results in research into product efficacy carried out in 2021, 2022, 2023 and 2024 in the North-East EPPO zone within the Central registration zone. List of these reports is contained in Appendix 1

Site

Trials were conducted in different regions in Poland sugar beet and winter oilseed rape are grown commercially. The experiment was established on a set of complete randomized blocks in 4 replications. Details on trial sites, applications and data on effectiveness are included in Appendix 4 and 5

Testing units

Efficacy and Selectivity studies on herbicide CHR/F/SCORPIO were performed in 2021, 2022, 2023 by:

- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland

Experimental details

The efficacy trials were designed, conducted and reported according to the following EPPO guidelines:

- PP 1/135 (4) Phytotoxicity assessment
- PP 1/152 (4) Design and analysis of efficacy evaluation trials
- PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice
- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape
- PP 1/1(4) Foliar diseases on sugarbeet

Assessment methods

Statistical Analysis

The treatment means of the assessment dates were calculated and compared using Student-Newman-Keuls test ($P=0.05$).

The statistical procedures were applied using ARM 2019.8 software

Assessment of efficacy

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 10 randomly selected plants (part rated – tiller).

Assessment of efficacy in winter oilseed rape

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 25 randomly selected plants.

Assessment infection of SCLESC on stems in five classes (0-4)

Class 0: no infection

Class 1: <50% infection

Class 2: >50% infection but strength of stem unaffected

Class 3: >50% infection, stem weakened

Class 4: death

Assessment of phytotoxicity

Phytotoxicity were assessed by visual estimation of the intensity on an overall plot basis on a percentage scale 0-100 % (0=no damage).

Harvest and qualitative analysis

The crop is harvested with a combine harvester from the central part of each plot. Sample for each plots analyzed on on the FOSS Infratec 1241 grain analyzer

Applications methods and rates

The applications were carried out by a T-BOOM – BACCAI, plot sprayer – BACSPR, plot sprayer BICSPR, Schachtner – SPRBIC, knapsack "Gloria".

Tested fungicyde was applied at spring and autumn and spring in the growth stage:

- winter oilseed rape: once per season at BBCH 61 -69 or twice per season at A: BBCH 14-29, B: BBCH 31-53

- sugar beet: once per season at BBCH 39-49.

The product CHR/F/SCORPIO has been used:

in sugar beet at the following rates of 0,6, 0,8, 0,9, 1,0 L/ha

in winter oilseed rape at the following rates of 0,8, 0,9, 1,0 L/ha (spring application)

in winter oilseed rape at the following rates of 0,7, 0,8, 0,9, 1,0 L/ha (autumn and spring application)

Amistar Gold Max were used as a reference product in winter oilseed rape and sugar beet.

The experiment was established on a set of complete randomized blocks in 4 replications.

Experiment pattern:

Winter oilseed rape once per season (spring application)

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/SCORPIO 325 SC	0,8	A	BBCH 61-69
3	CHR/F/SCORPIO 325 SC	0,9	A	BBCH 61-69
4	CHR/F/SCORPIO 325 SC	1,0	A	BBCH 61-69
5	Amistar Gold Max	1,0	A	BBCH 61-69

Winter oilseed rape twice per season (autumn and spring application)

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/SCORPIO 325 SC	0,7	A, B	A=BBCH 14-29 B= BBCH 31-53
3	CHR/F/SCORPIO 325 SC	0,8	A, B	A=BBCH 14-29 B= BBCH 31-53
4	CHR/F/SCORPIO 325 SC	0,9	A, B	A=BBCH 14-29 B= BBCH 31-53
5	CHR/F/SCORPIO 325 SC	1,0	A, B	A=BBCH 14-29 B= BBCH 31-53
6	Amistar Gold Max	1	A, B	A=BBCH 14-29 B= BBCH 31-53

Sugar beet once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/SCORPIO 325 SC	0,6	A	BBCH 39-49
3	CHR/F/SCORPIO 325 SC	0,8	A	BBCH 39-49
4	CHR/F/SCORPIO 325 SC	0,9	A	BBCH 39-49
5	CHR/F/SCORPIO 325 SC	1,0	A	BBCH 39-49
6	Amistar Gold Max	1,0	A	BBCH 39-49

Details of experiments

Sugar beet

Report code	A.T/2021/079/BC	A.T/2021/080/BC	A.T/2023/006/BC	A.T/2023/007/BC	A.T/2023/008/BC	A.T/2023/009/BC	A.T/2023/010/BC
Location	Modrzew, Stęszew/ Poland	Suchary, Nakło nad Notecią/ Poland	Góra/ Poland	Trzeciewnica, Nakło nad Notecią / Poland	Ostrówek, Sośno/ Poland	Sepno, Rokietnica / Poland	Chwiram/ Poland
Plant /cultivar	sugar beet / Graciana	sugar beet / Kujavia	sugar beet / BTS 8840	sugar beet / Mazovia Rh + CR	sugar beet / Kujavia	sugar beet / Viola KWS	sugar beet / Zagłoba
Seeding date	13.04.2021	08.04.2021	14.04.2023	13.04.2023	11.04.2023	14.04.2023	11.04.2023
Seeding rate	106 TS/ha	100 TS/ha	110 TS/ha	115 TS/ha	95 TS/ha	100 TS/ha	100 TS/ha
Forecrop	winter triticale	winter oilseed rape	winter oilseed rape	winter wheat	winter wheat	winter triticale	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment	30.07.2021	03.08.2021	29.06.2023	02.08.2023	27.06.2023	06.07.2023	31.07.2023
Plant development phase	BBCH 39; 39-49	BBCH 39; 38-49	BBCH 38-39	BBCH 49; 39-49	BBCH 39; 37-39	BBCH 39; 38-39	BBCH 49; 39 min
Soil type	loamy sand	loamy sand	sandy loam	loamy sand	loamy sand	sandy loam	sandy loam
pH	6,1	7,5	6,58	6,66	6,51	5,12	6,8
Water (l/ha)	200	300	200	300	200	200	300
Plot size	2,5x7=17,5m2	2,5x7=17,5m2	2,5x8=20m2	2,5x8=20m2	2,5x7=17,5m2	2,5x8=20m2	2,5x7=17,5m2

Sugar beet

Report code	AF/23/BC/9/JW/1	AF/23/BC/9/Zl/2	AF/23/BC/9/Or/3	AF/23/BC/9/Br/4	AF/23/BC/9/Pr/5	AF/23/BC/9/Wyr/6	AF/23/BC/9/ZL/7	AF/23/BC/9/Ma/8
Location	Janowiec Wielkopolski/ Poland	Złotniki/ Poland	Orłów/ Poland	Brody/ Poland	Przybroda/ Poland	Wyręba/ Poland	Złotniki/ Poland	Machary/ Poland
Plant /cultivar	sugar beet / Jagiellon	sugar beet / Klara	sugar beet / Jagiellon	sugar beet / Jagiellon	sugar beet / Kujavia	sugar beet / SV2423	sugar beet / Jantar	sugar beet / Tradycja
Seeding date	07.04.2023	11.04.2023	13.04.2023	13.04.2023	06.04.2023	04.04.2023	11.04.2023	27.04.2023
Seeding rate	105000 P/ha	110000 P/ha	110 TS/ha	110000 P/ha	110000 P/ha	90 TS/ha	95000 P/ha	100000 P/ha
Forecrop	spring oilseed rape	spring oilseed rape	winter wheat	winter wheat	spring oilseed rac	winter barley	spring oilseed rac	winter barley
Type of sprayer	BICSPR	BICSPR	BACCAI	BICSPR	BICSPR	BACCAI	BICSPR	BOSPHO
Date of treatment	26.07.2023	10.08.2023	24.08.2023	22.08.2023	14.07.2023	21.08.2023	21.08.2023	03.08.2023
Plant development phase	BBCH 39	BBCH 49	BBCH 49	BBCH 49	BBCH 39	BBCH 39	BBCH 49	BBCH 49
Soil type	loamy sand	loamy sand	clayey sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6	7	6,6	7	6	6,7	6	6,4
Water (l/ha)	200	200	300	200	200	300	200	200
Plot size	2,5x7=32,4 m2	2,7x10=27m2	3x10=30m2	2,0x10=20m2	2,7x12=32,4m2	3x10=30m2	2,7x10=27m2	2,5x10=25m2

Sugar beet season 2024

Report code	AF/24/BC/29/Br/01	AF/24/BC/29/Pr/02	AF/24/BC/29/Zł/03
Location	Brody/ Poland	Przybroda/ Poland	Złotniki/ Poland
Plant /cultivar	sugar beet / Pulitzer	sugar beet / Jagiellon	sugar beet /Klara
Seeding date	04.04.2024	15.04.2024	04.04.2024
Seeding rate	120000 S/ha	110000 S/ha	110000 P/ha
Forecrop	maize	winter wheat	winter rye
Type of sprayer	BOSPHO	BOSPHO	BOSPHO
Date of treatment	04.07.2024	09.08.2024	03.07.2024
Plant development phase	BBCH 39	BBCH 49	BBCH 39
Soil type	loamy sand	loamy sand	loamy sand
pH	6,9	6	7
Water (l/ha)	230	200	200
Plot size	2,0x10=20m ²	2,0x10=20m ²	2,0x10=20m ²

Winter oilseed rape appliaction autumn and spring

Report code	A.T.2021.105.RZO	A.T.2021.106.RZO	A.T.2021.108.RZO	A.T/2022/007/RZO	AF/22/RO/33/G/01	AF/22/RO/33/Pr/02	AF/22/RO/33/Br/03	AF/22/RO/33/Ma/04
Location	Brzoza/ Poland	Kakulin/ Poland	Jęczniki Wielkie/ Poland	Lusówko/ Poland	Gorzyce/ Poland	Przybroda/ Poland	Brody/ Poland	Machary/ Poland
Plant /cultivar	winter oilseed rape / Aganos	winter oilseed rape / Dominator	winter oilseed rape / Riccardo	winter oilseed rape / Drone	winter oilseed rape / Kadore	winter oilseed rape / Alibaba	winter oilseed rape / Harry	winter oilseed rape / Graf
Seeding date	20.08.2021	20.08.2021	24.08.2021	25.08.2022	23.08.2022	26.08.2022	29.08.2022	27.08.2022
Seeding rate	2,8 kg/ha	3,2 kg/ha	2,5 kg/ha	2 kg/ha	3,5 kg/ha	2,8 kg/ha	3,5 kg/ha	3 kg/ha
Forecrop	winter oilseed rape	winter wheat	winter oilseed rape	winter wheat	winter wheat	winter barley	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BOSPHO	BOSPHO	BOSPHO
Date of treatment A	20.09.2021	04.10.2021	19.10.2021	13.10.2022	15.10.2022	08.11.2022	15.11.2022	09.11.2022
Date of treatment B	25.03.2022	19.04.2022	22.04.2022	12.04.2023	08.04.2023	11.04.2023	21.04.2023	12.04.2023
Plant development phase A	BBCH 14-15	BBCH 14-18 (17)	BBCH 17-19 (18)	BBCH 20-21	BBCH 14-15	BBCH 17	BBCH 20	BBCH 20
Plant development phase B	BBCH 31-32	BBCH 50-55 (53)	BBCH 51-55 (53)	BBCH 50-55 (53)	BBCH 31	BBCH 32	BBCH 50	BBCH 32
Soil type	sandy loam	sandy loam	sandy loam	loamy sand	clayey sand	loamy sand	loamy sand	loamy sand
pH	7,2	6,3	5,4	6,8	6,7	6	7	6
Water (l/ha)	200	300	300	200	300	200	200	200
Plot size	2,5x7=17,5m2	2,5x8=20m2	2,5x9=22,5m2	2,5x7=17,5 m2	3x8=24m2	2x12=24m2	2,5x9=22,5m2	2x10=20m2

Winter oilseed rape appliaction autumn and spring

Report code	A.T.2021.107.RZO	A.T/2022/010/RZO	A.T/2022/008/RZO	A.T/2022/009/RZO	AF/22/RO/33/Pr/01	AF/22/RO/33/Zł/02	AF/22/RO/33/Go/03	AF/22/RO/33/Mał/04
Location	Nowa Wieś Ujska/ Poland	Moszczenica/ Poland	Motylewo/ Poland	Sępólno Krajeńskie/ Poland	Przybroda/ Poland	Złotniki/ Poland	Gosławice/ Poland	Małujowice/ Poland
Plant /cultivar	winter oilseed rape / Temptation	winter oilseed rape / LG Auckland	winter oilseed rape / Atora	winter oilseed rape / Batis	winter oilseed rape / Harry	winter oilseed rape / Bradley	winter oilseed rape / Chopin	winter oilseed rape / SY Ilona
Seeding date	24.08.2021	25.08.2022	22.08.2022	25.08.2022	26.08.2022	25.08.2022	29.08.2022	02.09.2022
Seeding rate	2,8 kg/ha	2,3 kg/ha	2,2 kg/ha	2,7 kg/ha	3 kg/ha	2,8 kg/ha	3,2 kg/ha	3,5 kg/ha
Forecrop	winter wheat	winter wheat	winter wheat	winter wheat	winter barley	pea	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BOSPHO	BOSPHO	BACCAI	BACCAI
Date of treatment A	21.09.2021	04.10.2022	19.10.2022	17.10.2022	05.10.2022	26.10.2022	11.10.2022	17.11.2022
Date of treatment B	12.04.2022	08.04.2023	14.04.2023	21.04.2023	11.04.2023	11.04.2023	09.04.2023	10.04.2023
Plant development phase A	BBCH 14-15	BBCH 14-15	BBCH 20-25 (23)	BBCH 21-25 (23)	BBCH 14-15	BBCH 17-18	BBCH 19-29	BBCH 20-29
Plant development phase B	BBCH 35-39	BBCH 31-33 (32)	BBCH 39-53 (51)	BBCH 50-55 (53)	BBCH 31-32	BBCH 31-32	BBCH 31-32	BBCH 51; 50-55
Soil type	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand	clayey sand	sandy loam
pH	6,6	6,2	7,6	5,6	6	6	6,3	6,8
Water (l/ha)	200	300	200	200	200	200	300	300
Plot size	2,5x8=20m2	2,5x8,5=21,25m2	2,5x7=17,5m2	2,5x8,75=21,875 m2	2x12=24m2	2x10=20m2	3x8=24m2	3x7=21m2

Winter oilseed rape appliaction spring

Report code	A.T.2021/077/RZO	A.T.2023.004.RZO	AF/23/RO/9/Pr/01	AF/23/RO/9/JW/02	AF/23/RO/9/Br/03	AF/23/RO/9/Ma/04	A.T.2023.005.RZO
Location	Kakulin/ Poland	Moszczenica, Chojnice / Poland	Przybroda/ Poland	Janowiec Wielkopolski/ Poland	Brody/ Poland	Machary/ Poland	Rybowo, Gołańcz/ Poland
Plant /cultivar	winter oilseed rape / LG Aviron	winter oilseed rape / Riccardo	winter oilseed rape / Harry	winter oilseed rape / Berni	winter oilseed rape/ Harry	winter oilseed rape/ Graf	winter oilseed rape/ Kuga
Seeding date	25.08.2020	24.08.2022	26.08.2022	26.08.2022	29.08.2023	17.08.2023	25.08.2022
Seeding rate	2,9 kg/ha	2,5 kg/ha	3 kg/ha	2,9 kg/ha	3,5 kg/ha	3 kg/ha	2,8 kg/ha
Forecrop	winter wheat	winter rye	winter barley	winter wheat	winter wheat	winter barley	winter wheat
Type of sprayer	BACCAI	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BACCAI
Date of treatment	15.05.2021	12.05.2023	11.05.2023	10.05.2023	11.05.2023	26.05.2023	12.05.2023
Plant development phase	BBCH 63-65	BBCH 62; 61-63	BBCH 61-62	BBCH 61-62	BBCH 65-69	BBCH 61; 60-63	BBCH 67; 65-69
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	5,1	5,42	6	6	7	6	6,58
Water (l/ha)	300	200	200	200	200	200	300
Plot size	2,5x8=20m2	2,5x10=20m2	2,0x12=24m2	2,0x12=24m2	2,5x9=22,5m2	2x12=24m2	2,5x10=25m2

Winter oilseed rape appliaction spring

Report code	A.T/2021/078/RZO	A.T.2023.001.RZO	AF/23/RO/9/Zł05	AF/23/RO/9/Go/06	AF/23/RO/9/Pr/07	A.T.2023.002.RZO	A.T.2023.003.RZO
Location	Nowa Wieś Ujska/ Poland	Lusówko/ Poland	Złotniki/ Poland	Gorzyce/ Poland	Przybroda/ Poland	Motylewo, Ujście/ Poland	Wilkowo, Sępólno Krajeńskie/ Poland
Plant /cultivar	winter oilseed rape / Atora	winter oilseed rape / Drone	winter oilseed rape / Bradley	winter oilseed rape / SY Ilona	winter oilseed rape/ Harry	winter oilseed rape/ Atora	winter oilseed rape/ Dominator
Seeding date	24.08.2020	25.08.2022	25.08.2022	20.08.2022	26.08.2023	22.08.2022	25.08.2022
Seeding rate	1,9 kg/ha	2 kg/ha	2,8 kg/ha	3 kg/ha	3 kg/ha	2,2 kg/ha	2,5 kg/ha
Forecrop	winter tritcale	winter wheat	winter wheat	winter wheat	winter barley	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BOSPHO	BACCAI	BOSPHO	BACCAI	BACCAI
Date of treatment	15.05.2021	01.05.2023	10.05.2023	22.05.2023	25.05.2023	17.05.2023	18.05.2023
Plant development phase	BBCH 63-64	BBCH 61; 60-62	BBCH 63; 61-65	BBCH 65; 65-67	BBCH 69; 65-69	BBCH 67; 65-69	BBCH 67; 65-69
Soil type	sandy loam	loamy sand	loamy sand	clayey sand	loamy sand	loamy sand	sandy loam
pH	7,2	6,8	6	6,6	6	7,6	5,73
Water (l/ha)	200	200	200	300	200	200	300
Plot size	2,5x8=20m2	2,5x7=17,5m2	2,0x10=20m2	3x8=24m2	2x12=24m2	2,5x7=17,5m2	2,5x9,5=23,75m2

Details of agricultural measures, fertilization, and other plant protection products applied during the experiments are included in detailed field study reports listed above.

Summary of the data from effectiveness trials can be found at Appendix 5

Table 3.2-10: Details on trial methodology

Guidelines	General guidelines	PP 1/152 (4) Design and analysis of efficacy evaluation trials
		PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice
		PP 1/135 (4) Phytotoxicity assessment
		PP 1/225(2) Minimum effective dose
	Specific guidelines	PP 1/1(4) Foliar diseases on sugar beet
		PP 1/78(4) Root, stem, foliar and pod diseases of oilseed rape
Experimental design	Plot design	Randomized Complete Block (RCB) – (57)
	Plot size	Sugar beet: 17,5-32,4 m ² Winter oilseed rape autumn and spring application: 17,5-24,0 m ² Winter oilseed rape spring application: 17,5-25 m ²
	Number of replications	4 (45)
Crop	Trials per crop	Sugar beet: 18 Winter oilseed rape autumn and spring application: 16 Winter oilseed rape spring application: 14
	Varieties per crop	Sugar beet: Jagiellon, Klara, Kujavia, SV2423, Jantar, Tradycja, Graciana, BTS 8840, Mazovia Rh + CR, Viola KWS, Zagłoba, Pulitzer Winter oilseed rape autumn and spring application: Aganos, Dominator, Riccardo, Drone, Kadore, Alibaba, Harry, Graf, Temptation, LG Auckland, Atora, Batis, Bradley, Chopin, SY Ilona Winter oilseed rape spring application: LG Aviron, Riccardo, Harry, Berni, Graf, Kuga, Atora, Drone, Bradley, SY Ilona, Dominator
	Sowing period	Sugar beet: 08-13.04.2021, 11-27.04.2023, 04.04.2024 - 15.04.2024 Winter oilseed rape autumn and spring application: 20-24.08.2021, 22.08.2022-02.09.2022 Winter oilseed rape spring application: 24-25.08.2020, 20.08.2020-29-08.2020
Application	Crop stage (BBCH)* at application	Sugar beet: BBCH 39-49 Winter oilseed rape: autumn – spring A: BBCH 14-29; B: BBCH 31-55 or spring BBCH 61-69
	Timing Pest stage at application (1)	The data available in Appendix 4
	Number of applications Intervals between applications	sugar beet: 1 (18 trials) interval – n/a winter oilseed rape: 1 (14 trials), interval – n/a, 2 (16 trials) interval 145-209 days

	Spray volumes	Sugar beet 200-300 l/ha Winter oilseed rape autumn and spring application 200-300 l/ha Winter oilseed rape spring application 200-300 l/ha
Assessment	Assessment types	Assessment of efficacy Assessment of phytotoxicity
	Assessment dates	Assessment dates deatalis is available in Appendix 4
Other relevant information	e.g. Soil type, pH (in case of soil active substance ...)	Sugar beet: pH: 5,12 -7,5 Winter oilseed rape autumn and spring application: pH: 5,4-7,6 Winter oilseed rape spring application: pH: 5,1-7,6
	e.g. Natural / artificial inoculation...	n/a
	e.g. Field / Greenhouse...	n/a
	...	n/a

* BBCH for weeds, pre-emergence, preventive / curative application, insect stage...

Crop(s) 1 AND/OR Target(s) 1

The 48 trials (winter oilseed rape 30 trials, sugar beet 18 trials) have been carried out in 2021, 2022, 2023 and 2024 in the North-East EPPO zone within the Central registration zone in Poland.

3.2.3-1 Efficacy tests of CHR/F/SCORPIO

Winter oilseed rape autumn and spring application

16 trials were carried out in winter oilseed rape in 2021, 2022. The fungicide CHR/F/SCORPIO was applied twice per season at the following rates of 0.7, 0.8, 0.9, 1.0 L/ha. The treatments were conducted twice per season at the growth stage from BBCH 14-29 to BBCH 31-55.

Winter oilseed rape spring application

14 trials were carried out in winter oilseed rape in 2021, 2023. The fungicide CHR/F/SCORPIO was applied once per season at the following rates of 0.8, 0.9, 1.0 L/ha. The treatments were conducted once per season at the growth stage from BBCH 61-69.

Sugar beet

18 trials were carried out in sugar beet in 2021, 2023, 2024. The fungicide CHR/F/SCORPIO was applied once per season at the following rates of 0.6, 0.8, 0.9, 1.0 L/ha. The treatments were conducted once per season at the growth stage from BBCH 39-49.

Winter wheat oilseed rape autumn and spring application

3.2.3-1.1 *The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam*

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 12 trials.

Stem

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 7 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 49,2 % (86 DA-B) to 56,0 % (95 DA-B), at rate 0.8 L/ha from 55,2 % (84 DA-B) to 71,8 % (86 DA-B), at rate 0.9 L/ha from 61,8 % (84 DA-B) to 78,2 % (86 DA-B), at rate 1.0 L/ha from 62,7 % (84 DA-B) to 82,7 % (86 DA-B). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 77 % during the assessment. (Appendix 5 tab. 1).

Leaf all assessment

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 9 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 50,7 % (44 DA-A) to 90,2 % (79 DA-B), at rate 0.8 L/ha from 71,2 % (44 DA-A) to 93,6 % (73 DA-B), at rate 0.9 L/ha from 78,6 % (44 DA-A) to 95,6 % (80 DA-B), at rate 1.0 L/ha from 81,8 % (44 DA-A) to 98,5 % (80 DA-B). The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 81 % during the assessment. (Appendix 5 tab. 2).

Leaf 14-30 DA-A

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 6 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 66,9 % (14 DA-A) to 81,9 % (27 DA-A), at rate 0.8 L/ha from 75,6 % (14 DA-A) to 89,8 % (27 DA-A), at rate 0.9 L/ha from 80,7 % (14 DA-A) to 87,7 % (24 DA-A), at rate 1.0 L/ha from 82,9 % (14 DA-A) to 93,8 % (30 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trials efficacy amounted above 86 % during the assessment. (Appendix 5 tab. 2a).

Leaf 36-71 DA-A

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 4 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 50,7 % (44 DA-A) to 81,8 % (71 DA-A), at rate 0.8 L/ha from 71,2 % (44 DA-A) to 85,4 % (37 DA-A), at rate 0.9 L/ha from 78,6 % (44 DA-A) to 90,9 % (71 DA-A), at rate 1.0 L/ha from 81,8 % (44 DA-A) to 94,5 % (71 DA-A). The efficacy of the tested fungicide was slightly higher than the standard product. In the trials efficacy amounted above 89 % during the assessment. (Appendix 5 tab. 2b).

Leaf 154-188 DA-A

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 5 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 71,6 % (167 DA-A) to 84,0 % (154 DA-A), at rate 0.8 L/ha from 85,7 % (188 DA-A) to 88,6 % (157 DA-A), at rate 0.9 L/ha from 88,4 % (167 DA-A) to 93,8 % (157 DA-A), at rate 1.0 L/ha from 90,5 % (167 DA-A) to 96,6 % (157 DA-A). The efficacy of the tested fungicide was slightly higher than the standard product. In the trials efficacy amounted above 94 % during the assessment. (Appendix 5 tab. 2c).

Leaf 14-30 DA-B

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 6 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 57,1 % (16 DA-B) to 87,7 % (14 DA-B), at rate 0.8 L/ha from 74,6 % (16 DA-B) to 93,2 % (28 DA-B), at rate 0.9 L/ha from 82,1 % (16 DA-B) to 95,5 % (28 DA-B), at rate 1.0 L/ha from 82,7% (16 DA-B) to 98,1 % (28 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trials efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 2d).

Leaf 41-44 DA-B

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 5 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 67,2 % (44 DA-B) to 89,2 % (41 DA-B), at rate 0.8 L/ha from 80,0 % (44 DA-B) to 93,4 % (41 DA-B), at rate 0.9 L/ha from 83,7 % (44 DA-B) to 95,4 % (41 DA-B), at rate 1.0 L/ha from 86,9% (44 DA-B) to 98,4 % (41 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trials efficacy amounted above 94 % during the assessment. (Appendix 5 tab. 2e).

Leaf 73-80 DA-B

The efficiency of CHR/F/SCORPIO in control of LEPTMA were investigated in 5 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 79,0 % (80 DA-B) to 90,2 % (79 DA-B), at rate 0.8 L/ha from 87,7 % (80 DA-B) to 93,6 % (73 DA-B), at rate 0.9 L/ha from 91,8 % (80 DA-B) to 95,6 % (80 DA-B), at rate 1.0 L/ha from 94,9% (80 DA-B) to 98,5 % (80 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trials efficacy amounted above 94 % during the assessment. (Appendix 5 tab. 2f).

3.2.3-1.2 The efficacy of CHR/F/SCORPIO in control of *Alternaria brassicae*.

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 10 trials.

Leaf all assessment

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 9 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 61,14 % (14, 84 DA-B) to 85,3 % (73 DA-B), at rate 0.8 L/ha from 70,6 % (27 DA-A) to 92,1 % (28 DA-B), at rate 0.9 L/ha from 77,80 % (71 DA-A) to 97,6% (27 DA-A), at rate 1.0 L/ha from 83,9 % (27 DA-A) to 100,0 % (24 DA-A) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 3).

Leaf 24-28 DA-A

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 5 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 64,0 % (27 DA-A) to 77,4 % (28 DA-A), at rate 0.8 L/ha from 70,6 % (27 DA-A) to 88,8 % (28 DA-A), at rate 0.9 L/ha from 83,4 % (27 DA-A) to

97,6% (27 DA-A), at rate 1.0 L/ha from 83,9 % (27 DA-A) to 100,0 % (24 DA-A) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 3a).

Leaf 50-71 DA-A

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 2 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 64,4 % (71 DA-A) to 71,7 % (50 DA-A), at rate 0.8 L/ha from 72,6 % (71 DA-A) to 83,4 % (50 DA-A), at rate 0.9 L/ha from 77,8 % (71 DA-A) to 89,8 % (50 DA-A), at rate 1.0 L/ha from 89,6 % (71 DA-A) to 90,6 % (50 DA-A) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 90 % during the assessment. (Appendix 5 tab. 3b).

Leaf 144-188 DA-A

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 5 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 64,67 % (144 DA-A) to 76,7 % (157 DA-A), at rate 0.8 L/ha from 72,17 % (144 DA-A) to 88,3 % (188 DA-A), at rate 0.9 L/ha from 83,4 % (179 DA-A) to 90,8 % (167 DA-A), at rate 1.0 L/ha from 86,9 % (179 DA-A) to 95,0 % (157 DA-A) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 91 % during the assessment. (Appendix 5 tab. 3c).

Leaf 14-29 DA-B

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 5 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 62,99 % (28 DA-B) to 84,4 % (14 DA-B), at rate 0.8 L/ha from 75,14 % (28 DA-B) to 92,1 % (28 DA-B), at rate 0.9 L/ha from 86,16 % (14 DA-B) to 94,5 % (14, 28 DA-B), at rate 1.0 L/ha from 85,2 % (15 DA-B) to 96,5 % (28 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 3d).

Leaf 42-43 DA-B

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 4 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 61,29 % (42 DA-B) to 83,4 % (42 DA-B), at rate 0.8 L/ha from 70,88 % (42 DA-B) to 90,0 % (42 DA-B), at rate 0.9 L/ha from 85,33 % (42 DA-B) to 93,8 % (42 DA-B), at rate 1.0 L/ha from 88,4 % (43 DA-B) to 96,9 % (42 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 3e).

Leaf 73-84 DA-B

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 4 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 61,14 % (84 DA-B) to 85,3 % (73 DA-B), at rate 0.8 L/ha from 76,76 % (84 DA-B) to 91,6 % (73 DA-B), at rate 0.9 L/ha from 88,25 % (84 DA-B) to 96,8 % (73 DA-B), at rate 1.0 L/ha from 96,8 % (73 DA-B) to 99,55 % (84 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 97 % during the assessment. (Appendix 5 tab. 3f).

Pod

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 4 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 42,4 % (104 DA-B) to 69,8 % (86 DA-

B), at rate 0.8 L/ha from 54,4 % (104 DA-B) to 85,8 % (86 DA-B), at rate 0.9 L/ha from 67,5 % (104 DA-B) to 96,0 % (86 DA-B), at rate 1.0 L/ha from 74,9 % (104 DA-B) to 100,0 % (86 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 85 % during the assessment. (Appendix 5 tab. 4).

3.2.3-1.3 The efficacy of CHR/F/SCORPIO in control of *Verticillium longisporum*.

Stem

The efficiency of CHR/F/SCORPIO in control of VERTLO were investigated in 7 trials. The tested product at rates 0.7, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the low level of efficacy. The effectiveness fluctuated from at rate 0.7 L/ha from 18,4 % (105 DA-B) to 44,2 % (104 DA-B), at rate 0.8 L/ha from 15,0 % (91 DA-B) to 60,3 % (104 DA-B), at rate 0.9 L/ha from 24,1 % (105 DA-B) to 61,0 % (124 DA-B), at rate 1.0 L/ha from 32,7 % (105 DA-B) to 77,5 % (91 DA-B) . The efficacy of the tested fungicide was slightly higher than the standard product. In the trial efficacy amounted above 58 % during the assessment. (Appendix 5 tab. 5).

Winter oilseed rape spring application

3.2.3-1.4 The efficacy of CHR/F/SCORPIO in control of *Sclerotinia sclerotiorum*

The efficiency of CHR/F/SCORPIO in control of SCLESC were investigated in 10 trials.
stem

The efficiency of CHR/F/SCORPIO in control of SCLESC were investigated in 10 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 14,7 % (49 DA-A) to 84,4 % (47 DA-A), at rate 0.9 L/ha from 45,5 % (52 DA-A) to 92,2 % (43 DA-A), at rate 1.0 L/ha from 61,9 % (49 DA-A) to 96,1 % (43 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 83 % during the assessment. (Appendix 5 tab. 6).

Pod

The efficiency of CHR/F/SCORPIO in control of SCLESC were investigated in 3 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 85,5 % (56 DA-A) to 88,0 % (58 DA-A), at rate 0.9 L/ha from 92,7 % (56 DA-A) to 100,0 % (58 DA-A), at rate 1.0 L/ha from 97,1 % (56 DA-A) to 100,0 % (58 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 98 % during the assessment. (Appendix 5 tab. 7).

3.2.3-1.5 The efficacy of CHR/F/SCORPIO in control of *Alternaria brassicae*

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 7 trials.
leaf

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 2 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 58,6 % (23 DA-A) to 77,8 % (26 DA-A), at rate 0.9 L/ha from 60,9 % (23 DA-A) to 81,3 % (26 DA-A), at rate 1.0 L/ha from 67,3 % (23 DA-A) to 91,9 % (26 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 79 % during the assessment. (Appendix 5 tab. 8).

Stem

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 3 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of

efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 84,0 % (47 DA-A) to 92,0 % (43 DA-A), at rate 0.9 L/ha from 92,0 % (43 DA-A) to 96,0 % (34, 47 DA-A), at rate 1.0 L/ha up to 100,0 % (32, 43, 47 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted up to 100,0 % during the assessment. (Appendix 5 tab. 9).

Pod

The efficiency of CHR/F/SCORPIO in control of ALTEBA were investigated in 5 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 43,3 % (84 DA-A) to 94,3 % (58 DA-A), at rate 0.9 L/ha from 55,5 % (84 DA-A) to 95,0 % (43 DA-A), at rate 1.0 L/ha from 62,1 % (84 DA-A) to 100,0 % (43,58 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 84 % during the assessment. (Appendix 5 tab. 10).

3.2.3-1.6 The efficacy of CHR/F/SCORPIO in control of Botrytis cinerea

The efficiency of CHR/F/SCORPIO in control of BOTRCI were investigated in 7 trials.

Leaf

The efficiency of CHR/F/SCORPIO in control of BOTRCI were investigated in 2 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 65,1 % (26 DA-A) to 70,2 % (23 DA-A), at rate 0.9 L/ha from 74,3 % (23 DA-A) to 74,9 % (26 DA-A), at rate 1.0 L/ha from 81,3 % (26 DA-A) to 85,3 % (23 DA-A). The efficacy of the tested fungicide was higher than the standard standard product. In the trial efficacy amounted up to 83 % during the assessment. (Appendix 5 tab. 11).

Stem

The efficiency of CHR/F/SCORPIO in control of BOTRCI were investigated in 4 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 54,2 % (30 DA-A) to 89,8 % (32 DA-A), at rate 0.9 L/ha from 66,7 % (30 DA-A) to 95,7 % (28 DA-A), at rate 1.0 L/ha from 89,6 % (30 DA-A) to 98,3 % (32 DA-A). The efficacy of the tested fungicide was higher than the standard standard product. In the trial efficacy amounted up to 83 % during the assessment. (Appendix 5 tab. 12).

Pod

The efficiency of CHR/F/SCORPIO in control of BOTRCI were investigated in 5 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 57,0 % (67 DA-A) to 90,7 % (43 DA-A), at rate 0.9 L/ha from 71,6 % (67 DA-A) to 96,7 % (43 DA-A), at rate 1.0 L/ha from 82,2 % (67 DA-A) to 98,7 % (43 DA-A). The efficacy of the tested fungicide was higher than the standard standard product. In the trial efficacy amounted up to 91 % during the assessment. (Appendix 5 tab. 13).

3.2.3-1.7 The efficacy of CHR/F/SCORPIO in control of Verticillium longisporum

stem

The efficiency of CHR/F/SCORPIO in control of VERTLO were investigated in 3 trials. The tested product at rates 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the low level of efficacy. The effectiveness fluctuated from at rate 0.8 L/ha from 14,1 % (85 DA-A) to 31,3% (83 DA-A), at rate 0.9 L/ha from 23,0 % (85 DA-A) to 41,5 % (83 DA-A), at rate 1.0 L/ha from 14,3 % (85 DA-A) to 51,2 % (83 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 99 % during the assessment. (Appendix 5 tab. 14).

Sugar beet

3.2.3-1.8 The efficacy of CHR/F/SCORPIO in control of *Cercospora beticola*

The efficiency of CHR/F/SCORPIO in control of CERCBE were investigated in 11 trials

Leaf all assessment

The efficiency of CHR/F/SCORPIO in control of CERCBE were investigated in 11 trials

The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 18,4 % (114 DA-A) to 80,3 % (49 DA-A) 0.8 L/ha from 26,6 % (114 DA-A) to 89,4 % (43 DA-A), at rate 0.9 L/ha from 29,4 % (114 DA-A) to 89,7 % (49 DA-A), at rate 1.0 L/ha from 34,3 % (114 DA-A) to 94,3 % (49 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 81 % during the assessment. (Appendix 5 tab. 15).

14-22 DA-A

The efficiency of CHR/F/SCORPIO in control of CERCBE were investigated in 4 trials

The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 58,8 % (14 DA-A) to 79,2 % (22 DA-A) 0.8 L/ha from 64,2 % (14 DA-A) to 84,2 % (22 DA-A), at rate 0.9 L/ha from 66,1 % (14 DA-A) to 84,7 % (14 DA-A), at rate 1.0 L/ha from 79,4 % (14 DA-A) to 92,0 % (14 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 87 % during the assessment. (Appendix 5 tab. 15a).

28-43 DA-A

The efficiency of CHR/F/SCORPIO in control of CERCBE were investigated in 10 trials

The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 40,6 % (32 DA-A) to 78,8 % (43 DA-A) 0.8 L/ha from 48,7 % (32 DA-A) to 89,4 % (43 DA-A), at rate 0.9 L/ha from 57,3 % (32 DA-A) to 89,6 % (42 DA-A), at rate 1.0 L/ha from 69,4 % (32 DA-A) to 93,7 % (42 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 85 % during the assessment. (Appendix 5 tab. 15b).

49 DA-A

The efficiency of CHR/F/SCORPIO in control of CERCBE were investigated in 2 trials

The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 63,8 % to 80,3 % (49 DA-A) 0.8 L/ha from 74,8 % to 84,3 % (49 DA-A), at rate 0.9 L/ha from 82,8 % to 89,7 % (49 DA-A), at rate 1.0 L/ha from 92,8 % to 94,3 % (49 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 93 % during the assessment. (Appendix 5 tab. 15c).

66-78 DA-A

The efficiency of CHR/F/SCORPIO in control of CERCBE were investigated in 4 trials

The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the low to medium level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 30,3 % (77 DA-A) to 44,7 % (66 DA-A) 0.8 L/ha from 45,1 % (77 DA-A) to 56,7 % (66 DA-A), at rate 0.9 L/ha from 49,1 % (69 DA-A) to 61,2 % (78 DA-A), at rate 1.0 L/ha from 57,4 % (77 DA-A) to 75,3 % (78 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 66 % during the assessment. (Appendix 5 tab. 15d).

3.2.3-1.9 The efficacy of CHR/F/SCORPIO in control of *Ramularia beticola*

The efficiency of CHR/F/SCORPIO in control of RAMUBE were investigated in 9 trials

Leaf

The efficiency of CHR/F/SCORPIO in control of RAMUBE were investigated in 9 trials.

The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of

efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 15,0 % (114 DA-A) to 80,7 % (43 DA-A) 0.8 L/ha from 15,0 % (114 DA-A) to 89,0 % (43 DA-A), at rate 0.9 L/ha from 25,0 % (114 DA-A) to 93,1 % (43 DA-A), at rate 1.0 L/ha from 25,0 % (114 DA-A) to 97,2 % (43 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 82 % during the assessment. (Appendix 5 tab. 16).

14-21 DA-A

The efficiency of CHR/F/SCORPIO in control of RAMUBE were investigated in 4 trials. The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 60,0 % (14 DA-A) to 78,7 % (21 DA-A) 0.8 L/ha from 73,2 % (14 DA-A) to 85,2 % (21 DA-A), at rate 0.9 L/ha from 80,9 % (21 DA-A) to 86,3 % (14 DA-A), at rate 1.0 L/ha from 86,1 % (14 DA-A) to 89,3 % (14 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 87 % during the assessment. (Appendix 5 tab. 16 a).

28-43 DA-A

The efficiency of CHR/F/SCORPIO in control of RAMUBE were investigated in 8 trials. The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 38,5 % (32 DA-A) to 80,7 % (43 DA-A) 0.8 L/ha from 58,5 % (36 DA-A) to 89,0 % (43 DA-A), at rate 0.9 L/ha from 67,4 % (36 DA-A) to 93,1 % (43 DA-A), at rate 1.0 L/ha from 80,7 % (36 DA-A) to 97,2 % (43 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 89 % during the assessment. (Appendix 5 tab. 16 b).

56-114 DA-A

The efficiency of CHR/F/SCORPIO in control of RAMUBE were investigated in 8 trials. The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the low level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 15,0 % (114 DA-A) to 76,5 % (56 DA-A) 0.8 L/ha from 15,0 % (114 DA-A) to 87,2 % (56 DA-A), at rate 0.9 L/ha from 25,0 % (114 DA-A) to 89,0 % (56 DA-A), at rate 1.0 L/ha from 25,0 % (114 DA-A) to 94,8 % (56 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 57 % during the assessment. (Appendix 5 tab. 16 c).

3.2.3-1.10 The efficacy of CHR/F/SCORPIO in control of *Erysiphe betae*

The efficiency of CHR/F/SCORPIO in control of ERYSB E were investigated in 9 trials

Leaf

The efficiency of CHR/F/SCORPIO in control of ERYSB E were investigated in 9 trials. The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 8,8 % (114 DA-A) to 89,2 % (40 DA-A) 0.8 L/ha from 8,8 % (114 DA-A) to 92,7 % (40 DA-A), at rate 0.9 L/ha from 13,2 % (114 DA-A) to 94,8 % (20 DA-A), at rate 1.0 L/ha from 13,4 % (114 DA-A) to 97,6 % (43 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 88,96 % during the assessment. (Appendix 5 tab. 17).

14-20 DA-A

The efficiency of CHR/F/SCORPIO in control of ERYSB E were investigated in 5 trials.

The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 38,7 % (14 DA-A) to 87,9 % (19 DA-A) 0.8 L/ha from 66,1 % (14 DA-A) to 92,4 % (19 DA-A), at rate 0.9 L/ha from 75,0 % (14 DA-A) to 94,8 % (20 DA-A), at rate 1.0 L/ha from 79,8 % (14 DA-A) to 96,2 % (19 DA-A). The efficacy of the tested fungicide was higher than the standard product. In the trial efficacy amounted above 90,7 % during the assessment. (Appendix 5 tab. 17 a).

28-43 DA-A

The efficiency of CHR/F/SCORPIO in control of ERYSE were investigated in 7 trials. The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the high level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 70,3 % (28 DA-A) to 89,2 % (40 DA-A) 0.8 L/ha from 77,4% (28 DA-A) to 92,7 % (40 DA-A), at rate 0.9 L/ha from 80,5 % (28 DA-A) to 93,9 % (40 DA-A), at rate 1.0 L/ha from 89,7 % (28 DA-A) to 97,6 % (43 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 94 % during the assessment. (Appendix 5 tab. 17 b).

49-114 DA-A

The efficiency of CHR/F/SCORPIO in control of ERYSE were investigated in 4 trials. The tested product at rates 0.6, 0.8, 0.9, 1.0 L/ha controlled this species of fungal from the medium level of efficacy. The effectiveness fluctuated from at rate 0.6 L/ha from 8,8 % (114 DA-A) to 83,0 % (56 DA-A) 0.8 L/ha from 8,8% (114 DA-A) to 89,5 % (49 DA-A), at rate 0.9 L/ha from 13,2 % (114 DA-A) to 90,0 % (49 DA-A), at rate 1.0 L/ha from 13,4 % (114 DA-A) to 94,1 % (56 DA-A). The efficacy of the tested fungicide was comparable to the standard product. In the trial efficacy amounted above 73 % during the assessment. (Appendix 5 tab. 17 c).

Conclusions on the biological efficacy 2021, 2022, 2023 and 2024

The obtained data in performed trials show CHR/F/SCORPIO provides benefits against the most important diseases in sugar beet and winter oilseed rape. On the basis of submitted research, it is possible to state that CHR/F/SCORPIO used at dose controlled:

The following table describes the effectiveness of fungal diseases

- ≥ 80% – Effectively controlled (E)
- 60 – 80% – Medium effectively controlled (ME)
- 40 – 60% – Limiting the number of pest (R)
- < 40% – Not effective (N)

Winter oilseed rape autumn and spring application

No	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Average (%)	Average (%)	Average (%)	Average (%) all assessment	Efficacy
				stem	LEPTMA leaf 14-30 DA-A	LEPTMA leaf 14-30 DA-B	ALTEBA leaf 24-28 DA-A	ALTEBA leaf 14-29 DA-B	pod		
1.	CHR/F/SCORPIO 325 S.C. 0,7 L/ha	LEPTMA	<i>Phoma lingam</i>	52,95	73,20	77,89				68,01	ME
		ALTEBA	<i>Alternaria brassicae</i>				71,73	73,89	58,37	68,00	ME
		VERTLO	<i>Verticillium longisporum</i>	34,47						34,47	N
2.	CHR/F/SCORPIO 325 S.C. 0,8 L/ha	LEPTMA	<i>Phoma lingam</i>	65,27	81,34	87,12				77,91	ME
		ALTEBA	<i>Alternaria brassicae</i>				83,00	85,43	72,98	80,47	E
		VERTLO	<i>Verticillium longisporum</i>	35,56						35,56	N
3.	CHR/F/SCORPIO 325 S.C. 0,9 L/ha	LEPTMA	<i>Phoma lingam</i>	72,64	84,83	90,96				82,81	E
		ALTEBA	<i>Alternaria brassicae</i>				92,02	90,89	80,63	87,85	E
		VERTLO	<i>Verticillium longisporum</i>	44,16						44,16	R
4.	CHR/F/SCORPIO 325 S.C. 1,0 L/ha	LEPTMA	<i>Phoma lingam</i>	77,71	86,90	93,98				86,20	E
		ALTEBA	<i>Alternaria brassicae</i>				94,38	93,15	85,58	91,03	E
		VERTLO	<i>Verticillium longisporum</i>	58,50						58,50	R

Winter oilseed rape spring application

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Average (%) all assessment	Efficacy
				stem	leaf	pod		
1.	CHR/F/SCORPIO 325 S.C. 0,8 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	63,02		86,40	74,71	ME
		BOTRCI	<i>Botrytis cinerea</i>	78,68	67,65	78,06	74,80	ME
		ALTEBA	<i>Alternaria brassicae</i>	88,00	68,20	69,55	75,25	ME
		VERTLO	<i>Verticillium longisporum</i>	22,53			22,53	N
2.	CHR/F/SCORPIO 325 S.C. 0,9 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	76,42		95,67	86,04	E
		BOTRCI	<i>Botrytis cinerea</i>	87,80	74,60	86,22	82,87	E
		ALTEBA	<i>Alternaria brassicae</i>	94,67	71,10	76,82	80,86	E
		VERTLO	<i>Verticillium longisporum</i>	34,65			34,65	N
3.	CHR/F/SCORPIO 325 S.C. 1,0 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	83,72		98,43	91,08	E
		BOTRCI	<i>Botrytis cinerea</i>	95,93	83,30	91,56	90,26	E
		ALTEBA	<i>Alternaria brassicae</i>	100,00	79,60	84,60	88,07	E
		VERTLO	<i>Verticillium longisporum</i>	39,18			39,18	N

Sugar beet

No	Product dose (L/ha)	EPPO code	Scientific name	Average (%) CERCBE	Average (%) CERCBE	Average (%) RAMUBE	Average (%) RAMUBE	Average (%) ERYSBE	Average (%) ERYSBE	Average (%) all assessments	Efficacy
				14-22 DA	28-43 DA	14-21 DA	28-43 DA	14-20 DA	28-43 DA		
				A	A	A	A	A	A		
1	CHR/F/SCORPIO 325 S.C. 0.6 L/ha	CERCBE	<i>Cercospora beticola</i>	69.1	62.4					65.8	ME
		RAMUBE	<i>Ramularia beticola</i>			67.9	66.6			67.2	ME
		ERYSBE	<i>Erysiphe betae</i>					71.04	78.44	74.74	ME
2	CHR/F/SCORPIO 325 S.C. 0.8 L/ha	CERCBE	<i>Cercospora beticola</i>	76.7	71.5					74.1	ME
		RAMUBE	<i>Ramularia beticola</i>			77.7	77.7			77.7	ME
		ERYSBE	<i>Erysiphe betae</i>					84	86.88	85.44	E
3	CHR/F/SCORPIO 325 S.C. 0.9 L/ha	CERCBE	<i>Cercospora beticola</i>	79.5	78.3					78.9	ME
		RAMUBE	<i>Ramularia beticola</i>			83.1	82.5			82.8	E
		ERYSBE	<i>Erysiphe betae</i>					86.76	87.31	87.04	E
4	CHR/F/SCORPIO 325 S.C. 1.0 L/ha	CERCBE	<i>Cercospora beticola</i>	87.8	85.9					86.9	E
		RAMUBE	<i>Ramularia beticola</i>			87.5	89.8			88.6	E
		ERYSBE	<i>Erysiphe betae</i>					90.66	94.87	92.76	E

3.2-1: Efficacy of product CHR/F/SCORPIO at the timing of assessment.

Winter oilseed rape autumn and spring application

Grouping*	Number of trials	Infestation in the untreated control (unit)		% control with CHR/F/SCORPIO 325 SC at rate															No of trials where Product is >, <= compared to standard(s)**
				0.7 L/ha			0.8 L/ha			0.9 L/ha			1.0 L/ha			Amistar Gold Max			
				(70% of full rate)			(80% of full rate)			(90% of full rate)			(full rate)						
		Mean	Min & Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	
<i>Plenodomus lingam/Phoma lingam - stem</i>	7	20.89	10.7 & 30.6	52.95	49.20	56.00	65.27	55.20	71.80	72.64	61.80	78.20	77.71	62.70	82.70	70.63	63.3	78.2	
<i>Plenodomus lingam/Phoma lingam – leaf 14-28 DA-A autumn</i>	6	8.8	6.1 & 13.1	73.20	66.90	81.90	81.34	75.60	89.80	84.83	80.70	87.70	86.90	82.90	93.80	86.13	78.30	93.30	
<i>Plenodomus lingam/Phoma lingam – leaf 14-28 DA-A spring</i>	6	14.4	7.1 & 22.5	77.89	57.10	87.70	87.12	74.60	93.20	90.96	82.10	95.50	93.98	82.70	98.10	91.41	78.80	97.10	
<i>Alternaria brassicae – leaf 14-28 DA-A autumn</i>	5	5.5	5.1 & 6.5	71.73	64.00	77.40	83.00	70.60	88.80	92.02	83.40	97.60	94.38	83.90	100.00	89.96	72.30	97.80	
<i>Alternaria brassicae – leaf 14 DA-A-28 spring</i>	5	15.8	9.1 & 25.6	73.89	62.99	84.40	85.43	75.14	92.10	90.89	86.16	94.50	93.15	85.20	96.50	91.17	82.40	95.20	
<i>Alternaria brassicae - pod</i>	4	12.53	5.9 & 22.7	58.37	42.40	69.80	72.98	54.40	85.80	80.63	67.50	96.00	85.58	74.90	100.00	84.83	75.1	100	
<i>Verticillium longisporum - stem</i>	7	32.61	5.8 & 74.9	34.47	18.40	44.20	35.56	15.00	60.30	44.16	24.10	61.00	58.50	32.70	77.50	45.57	16.5	61.7	

A, B, C can be a “trial group” (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:

- to add lines or columns,
- to duplicate the table (e.g. one table for “trial group 1”, one table for “trial group 2”, one table for “all”).

** Optional

Winter oilseed rape spring application

Target	CHR/F/SCORPIO	Number	Infestation in the untreated control (% leaf area/stem/pod)		% control					No of trials where Product is >, <, = compared to standard(s)**
	at rate	of trials			CHR/F/SCORPIO			Amistar Gold Max		
				Mean	Min & Max	Mean	Min	Max	Mean	Min & Max
Alternaria brassicae - leaf	0.8 L/ha	2	5,65	5,6 & 5,7	68,20	58,60	77,80	74,70	69,2 & 80,2	
	0.9 L/ha				71,10	60,90	81,30			
	1.0 L/ha				79,60	67,30	91,90			
Alternaria brassicae - stem	0.8 L/ha	3	6,3	6,3 & 6,3	88,00	84,00	92,00	96,00	96,0 & 96,0	
	0.9 L/ha				94,67	92,00	96,00			
	1.0 L/ha				100,00	100,00	100,00			
Alternaria brassicae - pod	0.8 L/ha	5	12,12	5 & 19,9	69,55	43,30	94,30	82,43	65,3 & 100	
	0.9 L/ha				76,82	55,50	95,00			
	1.0 L/ha				84,60	62,10	100,00			
Sclerotinia sclerotiorum - stem	0.8 L/ha	10	29,84	11,3 & 87,0	63,02	14,70	84,40	80,19	53,6 & 93,4	
	0.9 L/ha				76,42	45,50	92,20			
	1.0 L/ha				83,72	61,90	96,10			
Sclerotinia sclerotiorum - pod	0.8 L/ha	3	9,63	6,3 & 13,8	86,40	85,50	88,00	96,90	94,3 & 100	
	0.9 L/ha				95,67	92,70	100,00			
	1.0 L/ha				98,43	97,10	100,00			
Botrytis cinerea - leaf	0.8 L/ha	2	9,75	5,7 & 13,8	67,65	65,10	70,20	82,10	81,8 & 82,4	
	0.9 L/ha				74,60	74,30	74,90			
	1.0 L/ha				83,30	81,30	85,30			
Botrytis cinerea - stem	0.8 L/ha	4	13,65	11,5 & 16,0	78,68	54,20	89,80	92,28	83,3 & 98,3	
	0.9 L/ha				87,80	66,70	95,70			
	1.0 L/ha				95,93	89,60	98,30			
Botrytis cinerea - pod	0.8 L/ha	5	18,58	6,1 & 37,5	78,06	57,00	90,70	90,44	77,4 & 98,0	

	0,9 L/ha				86,22	71,60	96,70			
	1,0 L/ha				91,56	82,20	98,70			
<i>Verticillium longisporum - stem</i>	0,8 L/ha	3	31,83	11,0 & 78,5	22,53	14,10	31,30	35,73	22,9 & 43,4	
	0,9 L/ha				34,65	23,00	41,50			
	1,0 L/ha				39,18	14,30	51,20			

A, B, C can be a “trial group” (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:

- to add lines or columns,
- to duplicate the table (e.g. one table for “trial group 1”, one table for “trial group 2”, one table for “all”).

** Optional

Sugar beet

Grouping*	Number of trials	Infestation in the untreated control (unit)		Efficacy obtained with CHR/F/SCORPIO 325 SC at rate												Amistar Gold Max			No of trials where Product is > <, = compared to standard(s)**
				0.6 L/ha			0.8 L/ha			0.9 L/ha			1.0 L/ha						
				(60% of full rate)			(80% of full rate)			(90% of full rate)			(full rate)						
		Mean	Min & Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	
Cercospora beticola 15-20 DA-A	4	12	9.4 & 17.8	69.1	58.8	79.2	76.7	64.2	84.2	79.5	66.1	84.7	87.8	79.4	92.0	86.5	81.2	90.0	
Cercospora beticola 30-40 DA-A	10	11,9	5.0 & 35.9	62.4	40.6	78.0	71.5	48.7	89.4	78.3	57.3	89.6	85.9	69.4	93.7	82.8	54.9	95.6	
Ramularia beticola 15-20 DA-A	4	13	10.3 & 15.3	67.9	60.0	78.7	77.7	73.2	85.2	83.1	80.9	86.3	87.5	86.1	89.3	87.2	83.5	91.7	
Ramularia beticola30-40 DA-A	8	12,3	5.3 & 18.4	66.6	38.5	80.7	77.7	58.5	89.0	82.5	67.4	93.1	89.8	80.7	97.2	89.1	75.5	97.9	
Erysiphe betae 14-20 DA-A	5	11,24	7.1 & 19.27	71.04	38.7	87.9	84.0	66,1	92.4	86.76	75	94.8	90.66	79.8	96.2	86.92	72.6	96.5	
Erysiphe betae 30-40 DA-A	7	12	5.4 & 26.6	78.4	70.3	89.2	86.9	77.4	92.7	87.3	80.5	93.9	94.9	89.7	97.6	94.4	87.7	98.1	

A, B, C can be a “trial group” (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:

- to add lines or columns,
- to duplicate the table (e.g. one table for “trial group 1”, one table for “trial group 2”, one table for “all”).

** Optional

comments of ZRMS: dRR point 3.2.3 Efficacy tests (KCP 6.2)

The Applicant submitted 45 reports showing the results in research into product efficacy carried out in 2021, 2022, 2023 on cultivars of:

- winter oilseed rape – autumn/spring application - (16 trials) against: *Phoma lingam*, *Alternaria brassicae*, *Verticillium longisporum*
- winter oilseed rape - spring application (14 trials) against *Alternaria brassicae*, *Sclerotinia sclerotiorum*, *Verticillium longisporum*, *Botrytis cinerea*.
- sugar beet (15 trials) against: *Cercospora beticola*, *Ramularia beticola*, *Erisiphe betae*

In all efficacy trials, the efficacy of CHR/F/SCORPIO 325 SC was compared the reference product Amistar Gold Max. Trials were conducted in several region in Poland. In all mentioned regions winter oil seed rape and sugar beet were grown commercially with natural diseases infection. Trials were of randomized block design with a minimum of four replicates. Details on trial sites, applications are included in the Appendix 4, 5 and in the tables “Details of experiments”.

All trials were conducted by: A.T Sp. z o.o.; Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department which are units with rights for performing investigation on efficacy of plant protection products. Investigations were performed according to principles of “Good Experimental Practice” (GEP).

The efficacy trials were designed, conducted and reported according to the following EPPO guidelines:

- PP 1/135 (4) Phytotoxicity assessment
- PP 1/152 (4) Design and analysis of efficacy evaluation trials
- PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice
- PP 1/1 (4) Foliar diseases on sugar beet
- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape

The product CHR/F/SCORPIO 325 SC has been tested:

- on oilseed rape at the following rates of 0,7; 0,8; 0,9; 1,0 l/ha and was applied two times - autumn and spring application - (at BBCH 14-29 and BBCH 31-55, spray volume 200 – 300 l/ha).
- on oilseed rape at the following rates of 0,8; 0,9; 1,0 l/ha and was applied one time - spring application (BBCH 60 – 69, spray volume 200 – 300 l/ha).
- on sugar beet at the following rates of 0,6; 0,8; 0,9; 1,0 l/ha and was applied one time (BBCH 37-49, spray volume 200 – 300 l/ha).

The effectiveness of the product was describe according to the following scale

- ≥ 80% – Effectively controlled (E)
- 60 – 80% – Medium effectively controlled (ME)
- 40 – 60% – Limiting the number of pest (R)
- < 40% - Not effective (N)

Winter oilseed rape – autumn/spring application (two applications)

The effectiveness of CHR/F/SCORPIO 325 SC on **winter oilseed rape** was assessed:

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
LEPTMA (7 trials, leaf) 14-30 DAA	84,8 (E)	86,9 (E)	86,1 (E)
LEPTMA (12 trials, leaf) 14-30 DAB	91,0 (E)	94,0 (E)	91,4 (E)

The product was tested also 36-71 DAA and 154 -188 DAA, 41-44 DAB and 73-80 DAB and performed on the similar level as presented in the table (over 80%).

The product protected oilseed rape against LEPTMA effectively and performed comparable to the reference product.

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
ALTEBA (5 trials, leaf) 24-28 DAA	92,0 (E)	94,4 (E)	90,0 (E)

ALTEBA (10 trials, leaf) 14-30 DAB	91,0 (E)	93,2 (E)	91,2 (E)
ALTEBA (4 trials, pod) 86-266 DAB	80,6 (E)	85,6 (E)	84,8 (E)

The product was tested also 50-71 DAA and 144 -188 DAA, 42-43 DAB and 73-84 DAB and performed on the similar level as presented in the table (over 80%).

The product protected oilseed rape against ALTEBA effectively and performed comparable to the reference product.

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
VERTLO (7 trials, stem) 91-124 DAB	44,2 (R)	58,5 (R)	45,6 (R)

The product limited of disease VERTLO on oilseed rape and performed comparable to the reference product.

Winter oilseed rape – one spring application

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
SCLESC (10 trials, stem) 43-63 DAA	76,4 (ME)	83,7 (E)	80,2 (E)
SCLESC (3 trials, pod) 56-58 DAA	95,7 (E)	98,4 (E)	96,9 (E)

The product protected oilseed rape against SCLESC medium effectively at the dose rate of 0,9 l/ha and performed comparable to the reference product at the dose rate 1,0 l/ha where protected the crop effectively. The number of trials presented for pod are not sufficient and reflected only situation (trials) where stem of the crop (the part of the crop mainly affected by the disease) was protected efficiently. Therefore it is proposed to use the dose rate of 1,0 l/ha to protect the oilseed rape efficiently against SCLESC.

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
ALTEBA (2 trials, leaf) 23-26 DAA	71,1 (ME)	79,6 (ME)	74,7 (ME)
ALTEBA (3 trials, stem) 32-47 DAA	94,7 (E)	100 (E)	96,0 (E)
ALTEBA (5 trials, pod) 43-85 DAA	76,6 (ME)	84,6 (E)	82,4 (E)

The Applicant presented 7 trials on protection leaf, stem and pod against ALTEBA. The product protected oilseed rape against ALTEBA medium effectively on leaves and pods at the dose rate of 0,9 l/ha and performed comparable to the reference product at the dose rate 1,0 l/ha where protected the crop effectively. Therefore it is proposed to use the dose rate of 1,0 l/ha to protect the oilseed rape efficiently against ALTEBA.

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
BOTRICI (2 trials, leaf) 23-26 DAA	74,6 (ME)	83,3 (E)	82,1 (E)
BOTRICI (4 trials, stem) 28-47 DAA	87,8 (E)	95,3 (E)	92,3 (E)
BOTRICI (5 trials, pod) 43-67 DAA	86,2 (E)	91,6 (E)	90,4 (E)

The Applicant presented 8 trials on protection leaf, stem and pod against BOTRICI. The product protected oilseed rape against BOTRICI effectively on pods and stem at the dose rate of 0,9 l/ha and performed comparable to the reference product. Two trials presented on leaves are not very representative. Therefore it is proposed to use the dose rate of 0,9 l/ha to protect the oilseed rape efficiently against BOTRICI. The dose rate 1,0 l/ha is suggested for use when disease pressure is higher.

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
VERTLO (4 trials, stem) 83-87 DAA	34,6	39,2	35,7

The number of trials for VERTLO is not sufficient to state about efficacy of the product against this disease, because this disease is consired minor disease in PL. Nevertheless efficacy was lower than 40%, that is why the use against VERTLO (one application) is not recommended for authorization.

Sugar beet

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
CERCBE (4 trials, leaf) 14-22 DAA	79,5 (ME)	87,8 (E)	86,5 (E)
CERCBE (11 trials, leaf) 28-43 DAA	78,3 (ME)	85,9 (E)	82,8 (E)

The product protected oilseed rape against CERCBE medium effectively at the dose rate of 0,9 l/ha and performed worse than the reference product at the dose rate 1,0 l/ha where protected the crop effectively. Therefore it is proposed to use the dose rate of 1,0 l/ha to protect the oilseed rape efficiently against CERCBE.

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
RAMUBE (4 trials, leaf) 14-21 DAA	83,1 (E)	87,5 (E)	87,2 (E)
RAMUBE (10 trials, leaf) 28-43 DAA	82,5 (E)	89,8 (E)	89,1 (E)

The product protected oilseed rape against RAMUBE effectively at the dose rate of 0,9 l/ha and performed comparable to the reference product. The dose rate 1,0 l/ha is suggested for use when disease pressure is higher.

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
ERYSBE (2 trials, leaf) 14 DAA	79,1 (ME)	84,6 (E)	81,9 (E)
ERYSBE (5 trials, leaf) 28-43 DAA	84,4 (E)	94,5 (E)	94,6 (E)

The product protected oilseed rape against ERYSB E effectively at the dose rate of 0,9 l/ha and performed a little worse than the reference product.

The product was assessed also 49-56 DAA where performed efficiently at the dose rate of 0,9 l/ha and 114 DAA, where was not efficacious.

The product has a new use on the Polish market (new active substance dose for both crops - sugar beet and winter rape - max. 125 g/ha difenoconazole and 200 g/ha azoxystrobin). Taking into account the principles outlined in the MRiRW Guideline, for new applications, in the major crops it is necessary to submit for evaluation 6-15 trials (optimally 10 trials) carried out in 2 seasons. For ERYSB E (sugar beet), 6 trials performed in 1 season were submitted for evaluation. Therefore, the Applicant has not submitted the required package of trials for evaluation.

However the product controlled the disease well during the one season, therefore it is proposed to conditionally recognize the efficacy of the product against ERYSB E with the need to submit 4-5 trials from the second season post-authorized, confirming the efficacy indicated in the opinion.

After the commenting stage, the applicant submitted three additional efficacy trials conduted in PL, in 2024, to confirm efficacy of the product against ERYSB E on sugar beet (BBCH 39-49, spray volume 200-230 l/ha). Efficacy results (PESSEV) are presented below:

Disease (no of trials) Assessment DAA (B)	Efficacy [%] 0,9 l/ha	Efficacy [%] 1,0 l/ha	Efficacy [%] Ref.
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ERYSBE (3 trials, leaf)	91,9 (E)	94,7 (E)	90,3 (E)
17 -20 DAA			
ERYSBE (3 trials, leaf)	93,1 (E)	95,7 (E)	94,0 (E)
40 DAA			
The applicant was requested to confirm efficacy of the product against ERYSB E on sugar beet in 4-5 additional trials. Although fewer trials than required were submitted, it is proposed that this condition be considered fulfilled, as the product performed very efficiently against ERYSB E (above 90%) in the trials presented.			

Crop(s) 2 / Target(s) 2

Not applicable

Minor use

Not applicable

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

Not applicable

Table 3.2-2: Yield (quality) effect of product in efficacy trials on crop * target 1

Not applicable

Summary and conclusion

Not applicable

3.3 Information on the occurrence or possible occurrence of the development of resistance (KCP 6.3)

Resistance Risk Assessment (according to EPPO PP 1/213 (4) Resistance risk analysis)

3.3.1. Mode of action

CHR/F/SCORPIO 325 SC is a fungicide containing active substances: azoxystrobin 200 g/L, which belong to 11 (C3) FRAC group and difenoconazole 125 g/L, which belong to 3 (G1) FRAC group. Difenoconazole belongs to the class of triazoles. Difenoconazole is a triazole DMI (DeMethylation Inhibitor) fungicide; a sterol biosynthesis inhibitor, inhibiting the demethylation at the C14 position in the fungal cells. It is broad spectrum in its activity, controlling diseases caused by pathogenic fungi from all three classes: *Ascomycetes*, *Deuteromycetes* and *Basidiomycetes*. Difenoconazole is a broad spectrum fungicide, being active against seed and soil-borne pathogens in the seed treatment segment and exhibiting systemic activity when applied as a foliar spray.

Azoxystrobin is a broad spectrum fungicide for the control of many plant diseases. It has the same biochemical mode of action as the naturally occurring strobilurins and is structurally related to them. Azoxystrobin is a β -methoxyacrylate. The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control of diseases from *Ascomycetes*, *Basidiomycetes*, *Deuteromycetes*, and *Oomycetes*. Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration.

3.3.2. Mechanism of resistance

CHR/F/SCORPIO 325 SC is a fungicide containing active substances: azoxystrobin 200 g/L, which belong to 11 (C3) FRAC group and difenoconazole 125 g/L, which belong to 3 (G1) FRAC group.

According to EPPO PP 1/213 (4) Resistance risk analysis

The risk of resistance has generally been shown to be significantly higher for fungi possessing a combination of some of the following characteristics:

- short life cycle and/or the ability to infect during a high proportion of the crop growing season, resulting in many life cycles during the growing season;
- high epidemic growth rates (resulting, for example, from prolific spore production or a short latent period arising from the inherent characteristics of the pathogen and/or the environment including climate);
- fungi which are ‘specialist’ pathogens (defined as pathogens which are only able to infect one or a few crop host species)
- high genetic variability, e.g. seen as ability to easily generate stable insensitive mutant variants in the laboratory. The speed of geographic spread of insensitive strains, and the impact of resistance, will be greater for pathogens which:
- can achieve widespread dispersal of spores or other propagules in space and time;
- have high epidemic growth rates;
- infect host crop species which are extensively grown with short crop rotations, monocropping or continuous crop-ping.

Many types of resistance mechanism are known. These include: alteration of the biochemical target site so that it is no longer sensitive; increased production of the target protein; developing an alternative metabolic pathway that bypasses the target site; metabolic breakdown of the fungicide; exclusion or expulsion of the fungicide through ATP-ase dependent transporter proteins. By far the commonest mechanism appears to be an alteration to the biochemical target site of the fungicide. This could explain why many of the older products have not encountered resistance problems. Once they have penetrated the fungal cell, the older fungicides act as general enzyme inhibitors, affecting many target sites (hence they are sometimes called ‘multi-site’ inhibitors). They act selectively on fungi, rather than on plants and animals, because they penetrate and accumulate much more readily in fungi. Many sites in the fungus would have to change simultaneously in order to stop the fungicide from working. The chances of the many necessary genetic changes happening are negligible, and in any case an organism with so many alterations would be highly unlikely to be pathogenic or even viable. The occasional cases of resistance to multi-site fungicides presumably have resulted from other types of mechanism, not involving the sites of action. In contrast, modern fungicides act primarily at single target sites, and are often referred to as ‘single-site’ or ‘site-specific’ fungicides. Thus just a single gene mutation can cause the target site to alter, so as to become much less vulnerable to the fungicide. The rapid development over the past 10 years of PCR-based diagnostic methods for detection of point mutations causing resistance has aided the identification of resistance mechanisms, especially those involving target site changes. Several major resistance genes have now been isolated and characterised. In each case a single point mutation causes a change in a single amino acid in the target protein so that the fungicide no longer binds so tightly. Different amino acid changes in a target protein can cause different levels of resistance. For instance, as mentioned earlier, the G143A mutation (causing glycine to be replaced by alanine) at amino acid position 143 in the b-cytochrome of mitochondrial Complex III, causes higher levels of resistance to QoIs than the less common F129L mutation (replacing phenylalanine by leucine at position 129).

3.3.3. Evidence of resistance

CHR/F/SCORPIO 325 SC is a fungicide containing active substances: azoxystrobin 200 g/L, which belong to 11 (C3) FRAC group and difenoconazole 125 g/L, which belong to 3 (G1) FRAC group.

According to https://www.frac.info/docs/default-source/publications/list-of-resistant-plant-pathogens/list-of-first-confirmed-cases-of-plant-pathogenic-organisms-resistant-to-disease-control-agents_05_2020.pdf:

Table 1. List of pathogens with field resistance to 11 (C3) FRAC group

Species name	Host
<i>Alternaria alternata</i>	pistachio
<i>Alternaria alternata</i>	apple
<i>Alternaria alternata</i>	citrus
<i>Alternaria alternata</i>	potato tomato
<i>Alternaria arborescens</i>	pistachio
<i>Alternaria mali</i>	apple
<i>Alternaria solani</i>	potato
<i>Alternaria tenuissima</i>	pistachio
<i>Ascochyta rabiei</i>	chickpea
<i>Blumeria graminis (Erysiphe graminis)</i>	chickpea
<i>Botrytis cinerea</i>	strawberry, citrus, kiwi, fruit grapes, soft fruit
<i>Cercospora beticola</i>	sugar beet
<i>Cercospora kikuchii</i>	soybeans
<i>Cercospora soja</i>	soybeans
<i>Colletotrichum graminicola</i>	annual bluegrass / bent grass
<i>Colletotrichum gloeosporioides</i>	strawberry
<i>Corynespora cassicola</i>	cucumber
<i>Didymella bryoniae</i>	cucurbits, watermelon
<i>Didymella rabiei</i>	chickpea
<i>Erysiphe graminis tritici</i>	wheat
<i>Erysiphe graminis hordei</i>	barley
<i>Erysiphe necator; Uncinula necator</i>	barley
<i>Fusicladium carpophilum</i>	almond
<i>Glomerella cingulata (Colletotrichum gloeosporioides)</i>	strawberry
<i>Magnaporthe oryzae</i>	perennial ryegrass
<i>Microdochium nivale Microdochium majus</i>	wheat
<i>Microdochium nivale</i>	wheat
<i>Microdochium spp.</i>	cestempeals
<i>Monilinia laxa M. fructigena M. fructicola</i>	fruit
<i>Mycosphaerella fijiensis</i>	banana
<i>Mycosphaerella graminicola; Septoria tritici</i>	wheat
<i>Mycovellosiella natrassii</i>	eggplant / aubergine
<i>Pestalotiopsis longiseta</i>	tea
<i>Phaeosphaeria nodorum</i>	wheat
<i>Phakopsora pachyrhizi</i>	soybean
<i>Pseudoperonospora cubensis</i>	cucumber
<i>Plasmopara viticola</i>	grapevine
<i>Podosphaera fusca</i>	cucumber
<i>Podosphaera xanthii</i>	cucurbits
<i>Pseudocercospora vitis</i>	grapevines
<i>Pseudoperonospora cubensis</i>	cucumber
<i>Pyrenophora teres</i>	barley

<i>Pyrenophora tritici-repentis</i> T	wheat
<i>Pyricularia grisea</i>	perennial ryegrass
<i>Pyricularia oryzae</i>	rice
<i>Pythium aphanidermatum</i>	turf
<i>Ramularia colli-cygni</i>	barley
<i>Rhizoctonia solani</i>	potato
<i>Rhizoctonia solani</i>	rice
<i>Rhynchosporium secalis</i>	barley
<i>Saccharomyces cerevisiae</i>	barley
<i>Septoria nodorum</i> , (<i>Sphaeosphaeria nodorum</i>)	barley
<i>Septoria tritici</i> ; <i>Mycosphaerella graminicola</i> and <i>Zymoseptoria tritici</i>	wheat
<i>Sphaerotheca aphanis</i> var. <i>aphanis</i>	strawberry
<i>Sphaerotheca fuliginea</i>	cucumber
<i>Stemphylium vesicarium</i>	pears
<i>Stemphylium vesicarium</i>	asparagus
<i>Uncinula necator</i> ; <i>Erysiphe necator</i>	grapevine
<i>Ustilago maydis</i>	maize
<i>Venturia inaequalis</i>	apple
<i>Zymoseptoria tritici</i>	wheat

Table 2. List of pathogens with field resistance to 3 (G1) FRAC group

Species name	Host
<i>Aspergillus nidulans</i>	-
<i>Blumeriella jaapii</i>	Cherry
<i>Botryosphaeria dothidea</i>	-
<i>Botrytis cinerea</i>	Vegetables
<i>Calonectria pauciramosa</i>	Nurseries
<i>Calonectria polizzii</i>	Nurseries
<i>Cercospora beticola</i>	Sugar beet
<i>Cladosporium caryigenum</i>	Pecan
<i>Colletotrichum gloeosporioides</i>	Mango
<i>Erysiphe graminis</i> f.sp. <i>hordei</i>	Barley
<i>Erysiphe graminis</i> f.sp. <i>tritici</i>	Wheat
<i>Fusarium asiaticum</i> , <i>Fusarium graminearum</i>	Wheat
<i>Fusarium graminearum</i>	Wheat
<i>Fusarium fujikuroi</i>	-
<i>Fusarium monilifore</i>	Rice
<i>Fusarium solani</i> . See <i>Nectria haematococca</i> var. <i>cucurbitae</i>	Cucurbits
<i>Fusarium verticillioides</i>	Corn
<i>Microdochium</i> (<i>Fusarium</i>) <i>nivale</i>	-
<i>Monilinia fructicola</i>	Stone fruit
<i>Mycosphaerella fijiensis</i>	Banana
<i>Mycosphaerella graminicola</i>	Wheat
<i>Mycovellosiella natrassii</i>	Eggplant
<i>Nectria haematococca</i> var. <i>cucurbitae</i>	Cucurbits
<i>Penicillium digitatum</i>	Citrus
<i>Penicillium italicum</i>	-
<i>Phakopsora pachyrhizi</i>	Soybeans

<i>Pseudocercospora herpotrichoides</i> Lente or R type	Wheat
<i>Puccinia horiana</i>	Chrysanthemum
<i>Puccinia striiformis</i>	Wheat
<i>Pyrenopeziza brassicae</i>	Oilseed Rape
<i>Pyrenophora teres</i>	Barley
<i>Pyrenophora tritici-repentis</i>	Wheat
<i>Rhizoctonia solani</i>	Rice
<i>Rhynchosporium secalis</i>	Barley
<i>Sclerotinia homoeocarpa</i>	Turfgrass
<i>Septoria tritici</i>	
<i>Sphaerotheca fuliginea</i>	Cucumber
<i>Sphaerotheca mors-uvae</i>	Blackcurrant
<i>Sphaerotheca pannosa</i>	Nectarine
<i>Trichoderma koningii</i>	
<i>Uncinula necator</i>	Grapevine
<i>Ustilago avenae</i>	Oats
<i>Ustilago maydis</i>	Maize
<i>Venturia inaequalis</i>	Apple
<i>Venturia nashicola</i>	Pear

3.3.4. Cross-resistance

According to The Fungicide Resistance Action Committee (FRAC)

Fungicides active at the same target site (i.e. that is within the same FRAC code # on the FRAC Code List) are generally considered to be cross-resistant to each other. Cross-resistance is a phenomenon that occurs when resistance arises to one fungicide that also results in resistance to another fungicide. Occasionally, cross-resistance can occur between compounds active at different target sites. The actual target site is not completely understood for some fungicides so the target site description remains rather generic. For example, the target site description of the azanaphthalenes is signal transduction. The two azanaphthalenes, quinoyxfen and proquinazid, are grouped together in the same FRAC group since cross resistance was observed in *Erysiphe necator*. Interestingly, no cross-resistance was observed in another powdery mildew species, *Blumeria graminis*. Negative cross-resistance can also occur. Negative cross resistance is when a change results in a reduction in sensitivity to one fungicide and an increase in sensitivity to another fungicide. For example, isolates of *Botrytis cinerea* with reduced sensitivity to the benzimidazole fungicides (FRAC group #1 on the FRAC code list) have an increased sensitivity to the N-phenyl carbamates (FRAC group #10 on the FRAC code list).

3.3.5. Sensitivity data

Applicant didn't conduct separately trials for sensitivity data, this data was evaluated in efficacy trials. The CHR/F/SCORPIO 325 SC was tested in winter oilseed rape and sugar beet for the control of fungi. None of the tested fungi showed high tolerance to the product CHR/F/SCORPIO 325 SC. Detailed studies on the fungi sensitivity are submitted and summarised in 3.2 Efficacy data (KCP 6).

3.3.6. Use pattern

Fungicide CHR/F/SCORPIO 325 SC has demonstrated good crop tolerance to winter oilseed rape and sugar beet. Therefore concluded that CHR/F/SCORPIO 325 SC is safe usage at proposed rate and this support the label claim for the use in winter oilseed rape and sugar beet.

Undesirable effects are not expected on succeeding crops, adjacent crop, part of plants used for propagating purposes and beneficial organisms.

According to the above, the plant protection product CHR/F/SCORPIO 325 SC can be approved to the market and use in Poland according to proposed range of use – GAP

Based on submitted data the following regulation on the label is proposed:

Recommended dose at:

- winter oilseed rape: twice a season CHR/F/SCORPIO 325 SC 0.9-1.0 L/ha at BBCH 14-29 and BBCH 31-55

- winter oilseed rape: once a season CHR/F/SCORPIO 325 SC 0.9-1.0 L/ha at BBCH 61-69.

- sugar beet: once a season CHR/F/SCORPIO 325 SC 0.8-1.0 L/ha at BBCH 39-49.

Recommended volume of water 200-400 L/ha

Recommended medium droplet spraying

The product CHR/F/SCORPIO 325 SC should be use once or twice per season at spring post-emergence. To avoid resistance, products contain active substance with the same group shouldn't be used year after year on the same field.

Use of CHR/F/SCORPIO 325 SC according to the proposed GAP does not represent a hazard to rotational crops and does not justify a specific labelling. CHR/F/SCORPIO 325 SC is not persistent in soil nor is it taken up by succeeding crops.

3.3.7. Resistance risk assessment of unrestricted use pattern

CHR/F/SCORPIO 325 SC is a fungicide containing active substances: azoxystrobin 200 g/L, which belong to 11 (C3) FRAC group and difenoconazole 125 g/L, which belong to 3 (G1) FRAC group. These groups of fungicides are quite well known and have been applied commercially for decades.

According to the Fig 2. from *PP 1/213 (4) Resistance risk analysis* and Fig 1 and 2 from Pathogen Risk List (FRAC 2019) SBI fungicides (difenoconazole) are medium risk fungicides and QoI fungicides (azoxystrobin) are high risk fungicides. Table 3 (below) shows combined resistance risk assessment including fungicide classes, pathogen and different agronomic risk. The risk of resistance inherent in the plant protection product and the pest can be increased by certain conditions of use. This agronomic risk affects selection pressure on the development of resistance and is influenced by the particular characteristics of the crop, the geographic area in which the product is applied and the use pattern. The agronomic risk should be assessed on a case-by-case basis for each application taking into account the following factors:

- widely grown crop with short rotations;
- monocropping or continuous cropping;
- application techniques;
- other cultural practices (e.g. fertilizers, cultivation);
- need for high numbers of applications or long exposure to obtain control, because of the features of the crop environment;
- use of transgenic plants with genes expressing pesticidal activity;
- use of cultivars susceptible to the pest(s);
- geographic isolation of populations preventing the re-entry of sensitive forms;
- environmental conditions favouring more frequent generations or higher population densities of the pest e.g. in protected crops; a greater risk of resistance has been demonstrated where fungicides are used on protected crops (defined as a crop grown in a glasshouse or poly-tunnel) than on outdoor crops.
- exclusive reliance on a single active substance;

- lack of diversity of available control measures.

Table 3. Combined resistance risk assessment

Fungicide Classes	Fungicide Risk	Combined Risk			Agronomic Risk
QoI fungicides (azoxystrobin)	high = 6	6 3 1.5	12 6 3	18 9 4.5	high = 1 medium = 0.5 low = 0.25
SBI fungicides (difenoconazole)	medium = 4	4 2 1	8 4 2	12 6 3	high = 1 medium = 0.5 low = 0.25
Pathogen risk		low = 1	medium = 2	high = 3	
Pathogen		<i>Sclerotinia sclerotiorum</i> ; <i>Fusarium spp.</i>	<i>Alternaria Brassicae</i> ; <i>Cercospora beticola</i>	<i>Botrytis cinerea</i>	

Many factors need to be taken into account when analysing agronomic risk. Product CHR/F/SCORPIO 325 SC is a fungicide containing active substances: azoxystrobin 200 g/L, and difenoconazole 125 g/L, which belong to the different FRAC groups and therefore have different modes of action. According to the GAP table CHR/F/SCORPIO 325 SC is applied in sugar beet once per season and in winter oilseed rape once or twice (autumn and spring) per season so the product does not require multiple applications to achieve acceptable efficacy on the targeted diseases. The above factors do not show a high agronomic risk. Furthermore, by applying the principles of integrated pest management (e.g. crop rotation, sustainability fertilization, cultivation of varieties resistant to pathogens, set action thresholds, PPP's rotation), the agronomic risk of pathogen resistance to the fungicide can be significantly reduced. Considering the above, the agronomic risk for both crops (sugar beet and winter oilseed rape) is low. Table 4 shows combined resistance risk assessment for winter oilseed rape and sugar beet.

Table 4. Combined resistance risk assessment for winter oilseed rape and sugar beet

Fungicide Classes	Fungicide Risk	Combined Risk			Agronomic Risk for winter oilseed rape and sugar beet
QoI fungicides (azoxystrobin)	high = 6	1.5	3	4.5	low = 0.25
SBI fungicides (difenoconazole)	medium = 4	1	2	3	low = 0.25
Pathogen risk		low = 1	medium = 2	high = 3	
Pathogen		<i>Sclerotinia sclerotiorum</i> ; <i>Fusarium spp.</i>	<i>Alternaria Brassicae</i> ; <i>Cercospora beticola</i>	<i>Botrytis cinerea</i>	

Product CHR/F/SCORPIO 325 SC cannot be applied without any limitations as a unrestricted use. To minimize the risk of practical resistance avoid use products contain active substance with the same group year after year on the same field. Fungicide programmes must deliver effective disease management. Apply CHR/F/SCORPIO 325 SC product at effective rates and intervals according to manufacturers' recommendations. Use crop rotation and good field practice to avoid resistance on field. The number of

applications of CHR/F/SCORPIO 325 SC based product within a total disease management program must be limited whether applied solo or in mixtures with other fungicides.

3.3.8. Test methods

Not applicable

3.3.9. Acceptability of the resistance risk

CHR/F/SCORPIO 325 SC is a fungicide containing active substances: azoxystrobin 200 g/L, which belong to 11 (C3) FRAC group and difenoconazole 125 g/L, which belong to 3 (G1) FRAC group. Difenoconazole belongs to the class of triazoles. Difenoconazole is a triazole DMI (DeMethylation Inhibitor) fungicide; a sterol biosynthesis inhibitor, inhibiting the demethylation at the C14 position in the fungal cells. It is broad spectrum in its activity, controlling diseases caused by pathogenic fungi from all three classes: *Ascomycetes*, *Deuteromycetes* and *Basidiomycetes*. Difenoconazole is a broad spectrum fungicide, being active against seed and soil-borne pathogens in the seed treatment segment and exhibiting systemic activity when applied as a foliar spray.

Azoxystrobin is a broad spectrum fungicide for the control of many plant diseases. It has the same biochemical mode of action as the naturally occurring strobilurins and is structurally related to them. The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control of diseases from *Ascomycetes*, *Basidiomycetes*, *Deuteromycetes*, and *Oomycetes*.

These groups of fungicides are quite well known and have been applied commercially for decades. There are many cases of fungi resistance to 11 (C3) FRAC group and 3 (G1) FRAC group fungicide. According to submitted efficacy data none of the tested fungi showed high tolerance to the product CHR/F/SCORPIO 325 SC.

In conclusion, in the applicant's opinion, this level of fungi resistance risk should be considered to be acceptable with a resistance management strategy.

3.3.10. Management strategy

3.3.11. According to Fungicide Resistance Action Committee (FRAC) (<https://www.frac.info/frac-teams/working-groups/sbi-fungicides/recommendations-for-qoi>)

A fundamental principle that must be adhered to when applying resistance management strategies for QoI fungicides is that:

- The QoI fungicides (azoxystrobin, coumoxystrobin, dimoxystrobin, enoxastrobin, famoxadone, fenamidone, fenaminostrobin, fluoxastrobin, flufenoxystrobin, kresoxim-methyl, mandestrobin, metominostrobin, orysastrobin, pyraoxystrobin, picoxystrobin, pyraclostrobin, pyrametastrobin, pyribencarb, triclopyricarb, trifloxystrobin) are in the same cross-resistance group; FRAC Code 11.
- The QoI fungicide in subgroup A (metyltetraprole), Code 11A fungicide, is not cross resistant with Code 11 fungicides on the pathogens with G143A mutation.

- Fungicide programmes must deliver effective disease management. Apply QoI fungicide based products at effective rates and intervals according to manufacturers' recommendations. Effective disease management is a critical component to delay the build-up of resistant pathogen populations.
- The number of applications of QoI fungicide based products within a total disease management program must be limited whether applied solo or in mixtures with other fungicides. This limitation is inclusive to all QoI fungicides. Limitation of QoI fungicides within a spray programme provides time and space when the pathogen population is not influenced by QoI fungicide selection pressure.
- Limitation of the total number of QoI applications is detailed in the specific crop recommendations. In consideration of the cross-resistance profile of subgroups 11 and 11A, the maximum allowed number of QoI-containing sprays is increased by one, where both QoI fungicides (code 11) and QoI fungicides in subgroup A (code 11A) are included in a spray program in a given cropping season. All crop-specific recommendations will be regularly reviewed based on sensitivity monitoring.
- A consequence of limitation of QoI fungicide based products is the need to alternate them with effective fungicides from different cross-resistance groups (refer to the specific crop recommendations).
- QoI fungicides, containing only the solo product, should be used in single or block applications in alternation with fungicides from a different cross-resistance group. Specific recommendation on size of blocks is given for specific crops.
- QoI fungicides, applied as tank mix or as a co-formulated mixture with an effective mixture partner, should be used in single or block applications in alternation with fungicides from a different cross-resistance group. Specific recommendations on size of blocks are given for specific crops.
- Mixture partners for QoI fungicides should be chosen carefully to contribute to effective control of the targeted pathogen(s). The mixture partner must have a different mode of action, and in addition it may increase spectrum of activity or provide needed curative activity. Use of mixtures containing only QoI fungicides (including two-way mixtures of code 11 fungicide and code 11A fungicide) must not be considered as an anti-resistance measure.
- Where local regulations do not allow mixtures, then strict alternations with non-cross resistant fungicides (no block applications) are necessary.
- An effective partner for a QoI fungicide is one that provides satisfactory disease control when used alone on the target disease.
- QoI fungicides are very effective at preventing spore germination and should therefore be used at the early stages of disease development (preventive treatment).

Guidelines for using QoI fungicides on cereal crops.

- Apply QoI fungicides always in mixtures with non-cross resistant fungicides to control cereal pathogens. At the rate chosen the respective partner(s) on its/ their own has/ have to provide effective disease control. Refer to manufacturers recommendations for rates.
- Apply a maximum of 2 QoI fungicide containing sprays per cereal crop. Limiting the number of sprays is an important factor in delaying the build-up of resistant pathogen populations.
- Apply QoI fungicides according to manufacturers recommendations for the target disease (or complex) at the specific crop growth stage indicated.

- Apply the QoI fungicide preventively or as early as possible in the disease cycle. Do not rely only on the curative potential of QoI fungicides.
- Split / reduced rate program, using repeated applications, which provide continuous selection pressure, accelerate the development of resistant populations and therefore must not be used.

According to Fungicide Resistance Action Committee (FRAC) (<https://www.frac.info/frac-teams/working-groups/sbi-fungicides/recommendations-for-sbi>)

The SBI fungicides represent one of the most potent classes of fungicides available to the grower for the control of many economically important pathogens. It is in the best interest of all those involved in recommending and using these fungicides that they are utilised in such a way that their effectiveness is maintained

The working group concentrates its resources on the major crop/pathogen targets from the point of view of resistance risk. Inevitably many, still important pathogens are omitted. To help in making recommendations for crops and pathogens not directly covered, the following general recommendations can be made:

- Repeated application of SBI fungicides alone should not be used on the same crop in one season against a high-risk pathogen in areas of high disease pressure for that particular pathogen.
- For crop/pathogen situations where repeated spray applications (e.g. orchard crops/powdery mildew) are made during the season, alternation (block sprays or in sequence) or mixtures with an effective non cross-resistant fungicide are recommended (see FRAC Code List on Download Page).
- Where alternation or the use of mixtures is not feasible because of a lack of effective or compatible non cross-resistant partner fungicides, then input of SBI's should be reserved for critical parts of the season or crop growth stage.
- If the performance of SBIs should decline and sensitivity testing has confirmed the presence of less sensitive isolates, SBIs should only be used in mixture or alternation with effective non cross-resistant partner fungicides.
- The introduction of new classes of chemistry offers opportunities for more effective resistance management. The use of different modes of action should be maximized for the most effective resistance management strategies.
- Users must adhere to the manufacturers' recommendations. In many cases, reports of "resistance" have, on investigation, been attributed to cutting recommended use rates, or to poorly timed applications.
- Fungicide input is only one aspect of crop management. Fungicide use does not replace the need for resistant crop varieties, good agronomic practice, plant hygiene/sanitation, etc.
- Exclusive frequency measurements of single cyp51 mutations are not sufficient to describe the sensitivity situation towards DMIs but can help to better understand the background of sensitivity shifts.

3.3.12. Implementation of the management strategy

The fungicide label provides all the necessary information for preventing fungi resistance to fungicides.

3.3.13. Monitoring, reporting and reaction to changes in performance

According to <https://www.frac.info/knowledge-database/monitoring-methods>

To establish a baseline using bioassay procedures, a reliable technique must be developed. The technique must also be able to be used in subsequent monitoring operations investigating possible development of

resistance. If and when resistance develops, the same method may be used to identify resistant isolates, but it is possible that more specific methods will have been developed at that time.

The following requirements were considered while establishing these techniques:

- The method must be robust, reliable and repeatable
- It must be as simple as possible to operate in terms of technology and user skills
- It should be as cheap to operate as possible and capable of a high throughput in a short time
- The data obtained must be able to be related to sensitivity responses in the field.

comments of ZRMS: dRR point 3.3 Information on the occurrence or possible occurrence of the development of resistance (KCP 6.3)

The Applicant proposed to implement resistance management strategies to obtain the reduction of selection pressure. Good agricultural practice leads to less infection pressure and limiting number of application is also important factor in preventing the build-up of resistant pathogen populations. That is why the use of the product is restricted to 1 application per season. The FRAC resistance management strategy has to implement and place on the label. Nevertheless regulatory authorities should be informed about any new information which would change the resistance risk analysis.

3.4 Adverse effects on treated crops (KCP 6.4)

Information on trials submitted (3.4: Adverse effects on treated crops)

Table 3.4-1: Presentation of efficacy trials.

Crop*	Country	Type of trial**	Number of trials	Years	GEP, non-GEP, official***	Comments (any other relevant information)
			North-East Zone			
winter oilseed rape	Poland	Y + Q	6	2021	GEP	-
	Poland	Y + Q	12	2022	GEP	-
	Poland	Y + Q	12	2023	GEP	-
Sugar beet	Poland	Y + Q	2	2021	GEP	-
	Poland	Y + Q	13	2023	GEP	-
	Poland	Y + Q	3	2024	GEP	-
TOTAL	-	-	48	-	-	-

* 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 efficacy trials.

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

winter oilseed rape, sugar beet	Amistar Gold Max.	Poland	R - 5/2023d z dnia 28.02.2023 r., R - 13/2019wu z dnia 18.03.2019 r.	difenoconazole	SC - Suspension concentrate	125 g/l	1,0 l/ha	1,0 l/ha	-
				azoxystrobin		200 g/l			

- (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...)

3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

Materials and methods

The applicant submitted 48 trials (winter oilseed rape 30 trials, sugar beet 18 trials) showing the results in research into product efficacy carried out in in 2021, 2022, 2023, 2024 in the North-East EPPO zone within the Central registration zone. List of these reports is contained in Appendix 1

Site

Trials were conducted in different regions in Poland sugar beet and wintyer oilseed rape are grown commercially. The experiment was established on a set of complete randomized blocks in 4 replications. Details on trial sites, applications and data on effectiveness are included in Appendix 4 and 5

Testing units

Efficacy and Selectivity studies on herbicide CHR/F/SCORPIO were performed in 2021, 2022, 2023 and 2024 by:

- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland

Experimental details

The efficacy trials were designed, conducted and reported according to the following EPPO guidelines:

- PP 1/135 (4) Phytotoxicity assessment
- PP 1/152 (4) Design and analysis of efficacy evaluation trials
- PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice
- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape
- PP 1/1(4) Foliar diseases on sugar beet

Assessment methods

Statistical Analysis

The treatment means of the assessment dates were calculated and compared using Student-Newman-Keuls test ($P=0.05$).

The statistical procedures were applied using ARM 2019.8 software

Assessment of efficacy

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 10 randomly selected plants (part rated – tiller).

Assessment of efficacy in winter oilseed rape

Efficacy was recorded by estimation and counting of severity of disease. The level of infection was assessed on 25 randomly selected plants.

Assessment infection of SCLESC on stems in five classes (0-4)

Class 0: no infection

Class 1: <50% infection

Class 2: >50% infection but strength of stem unaffected

Class 3: >50% infection, stem weakened
Class 4: death

Assessment of phytotoxicity

Phytotoxicity were assessed by visual estimation of the intensity on an overall plot basis on a percentage scale 0-100 % (0=no damage).

Harvest and qualitative analysis

The crop is harvested with a combine harvester from the central part of each plot. Sample for each plots analyzed on on the FOSS Infratec 1241 grain analyzer

Applications methods and rates

The applications were carried out by a T-BOOM – BACCAI, plot sprayer – BACSPR, plot sprayer BICSPR, Schachtner – SPRBIC, knapsack "Gloria".

Tested fungicide was applied at spring and autumn and spring in the growth stage:

- winter oilseed rape: once per season at BBCH 61 -69 or twice per season at A: BBCH 14-29, B: BBCH 31-55
- sugar beet: once per season at BBCH 39-49.

The product CHR/F/SCORPIO has been used:

in sugar beet at the following rates of 0,6, 0,8, 0,9, 1,0 L/ha

in winter oilseed rape at the following rates of 0,8, 0,9, 1,0 L/ha (spring application)

in winter oilseed rape at the following rates of 0,7, 0,8, 0,9, 1,0 L/ha (autumn and spring application)

Amistar Gold Max were used as a reference product in winter oilseed rape and sugar beet.

The experiment was established on a set of complete randomized blocks in 4 replications.

Experiment pattern:

Winter oilseed rape once per season (spring application)

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/SCORPIO 325 SC	0,8	A	BBCH 61-69
3	CHR/F/SCORPIO 325 SC	0,9	A	BBCH 61-69
4	CHR/F/SCORPIO 325 SC	1,0	A	BBCH 61-69
5	Amistar Gold Max	1,0	A	BBCH 61-69

Winter oilseed rape twice per season (autumn and spring application)

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			

2	CHR/F/SCORPIO 325 SC	0,7	A, B	A=BBCH 14-29 B= BBCH 31-55
3	CHR/F/SCORPIO 325 SC	0,8	A, B	A=BBCH 14-29 B= BBCH 31-55
4	CHR/F/SCORPIO 325 SC	0,9	A, B	A=BBCH 14-29 B= BBCH 31-55
5	CHR/F/SCORPIO 325 SC	1,0	A, B	A=BBCH 14-29 B= BBCH 31-55
6	Amistar Gold Max	1	A, B	A=BBCH 14-29 B= BBCH 31-55

Sugar beet once per season

No.	Name	Rate (l/ha)	Appl code	Growth Stage BBCH
1	Untreated Check			
2	CHR/F/SCORPIO 325 SC	0,6	A	BBCH 39-49
3	CHR/F/SCORPIO 325 SC	0,8	A	BBCH 39-49
4	CHR/F/SCORPIO 325 SC	0,9	A	BBCH 39-49
5	CHR/F/SCORPIO 325 SC	1,0	A	BBCH 39-49
6	Amistar Gold Max	1,0	A	BBCH 39-49

Details of experiments

Winter oilseed rape autumn and spring application

Report code	A.T.2021.105.RZO	A.T.2021.106.RZO	A.T.2021.108.RZO	A.T/2022/007/RZO	AF/22/RO/33/G/01	AF/22/RO/33/Pr/02	AF/22/RO/33/Br/03	AF/22/RO/33/Ma/04
Location	Brzoza/ Poland	Kakulin/ Poland	Jęczniki Wielkie/ Poland	Lusówko/ Poland	Gorzyce/ Poland	Przybroda/ Poland	Brody/ Poland	Machary/ Poland
Plant /cultivar	winter oilseed rape / Aganos	winter oilseed rape / Dominator	winter oilseed rape/ Riccardo	winter oilseed rape / Drone	winter oilseed rape / Kadore	winter oilseed rape / Alibaba	winter oilseed rape / Harry	winter oilseed rape / Graf
Seeding date	20.08.2021	20.08.2021	24.08.2021	25.08.2022	23.08.2022	26.08.2022	29.08.2022	27.08.2022
Seeding rate	2,8 kg/ha	3,2 kg/ha	2,5 kg/ha	2 kg/ha	3,5 kg/ha	2,8 kg/ha	3,5 kg/ha	3 kg/ha
Forecrop	winter oilseed rape	winter wheat	winter oilseed rape	winter wheat	winter wheat	winter barley	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BOSPHO	BOSPHO	BOSPHO
Date of treatment A	20.09.2021	04.10.2021	19.10.2021	13.10.2022	15.10.2022	08.11.2022	15.11.2022	09.11.2022
Date of treatment B	25.03.2022	19.04.2022	22.04.2022	12.04.2023	08.04.2023	11.04.2023	21.04.2023	12.04.2023
Plant development phase A	BBCH 14-15	BBCH 14-18 (17)	BBCH 17-19 (18)	BBCH 20-21	BBCH 14-15	BBCH 17	BBCH 20	BBCH 20
Plant development phase B	BBCH 31-32	BBCH 50-55 (53)	BBCH 51-55 (53)	BBCH 50-55 (53)	BBCH 31	BBCH 32	BBCH 50	BBCH 32
Soil type	sandy loam	sandy loam	sandy loam	loamy sand	clayey sand	loamy sand	loamy sand	loamy sand
pH	7,2	6,3	5,4	6,8	6,7	6	7	6
Water (l/ha)	200	300	300	200	300	200	200	200
Plot size	2,5x7=17,5m2	2,5x8=20m2	2,5x9=22,5m2	2,5x7=17,5 m2	3x8=24m2	2x12=24m2	2,5x9=22,5m2	2x10=20m2

Winter oilseed rape autumn and spring application

Report code	A.T.2021.107.RZO	A.T/2022/010/RZO	A.T/2022/008/RZO	A.T/2022/009/RZO	AF/22/RO/33/Pr/01	AF/22/RO/33/Zł/02	AF/22/RO/33/Go/03	AF/22/RO/33/Mał/04
Location	Nowa Wieś Ujska/ Poland	Moszczenica/ Poland	Motylewo/ Poland	Sępólno Krajeńskie/ Poland	Przybroda/ Poland	Złotniki/ Poland	Gosławice/ Poland	Małujowice/ Poland
Plant /cultivar	winter oilseed rape / Temptation	winter oilseed rape / LG Auckland	winter oilseed rape / Atora	winter oilseed rape / Batis	winter oilseed rape / Harry	winter oilseed rape / Bradley	winter oilseed rape / Chopin	winter oilseed rape / SY Ilona
Seeding date	24.08.2021	25.08.2022	22.08.2022	25.08.2022	26.08.2022	25.08.2022	29.08.2022	02.09.2022
Seeding rate	2,8 kg/ha	2,3 kg/ha	2,2 kg/ha	2,7 kg/ha	3 kg/ha	2,8 kg/ha	3,2 kg/ha	3,5 kg/ha
Forecrop	winter wheat	winter wheat	winter wheat	winter wheat	winter barley	pea	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BOSPHO	BOSPHO	BACCAI	BACCAI
Date of treatment A	21.09.2021	04.10.2022	19.10.2022	17.10.2022	05.10.2022	26.10.2022	11.10.2022	17.11.2022
Date of treatment B	12.04.2022	08.04.2023	14.04.2023	21.04.2023	11.04.2023	11.04.2023	09.04.2023	10.04.2023
Plant development phase A	BBCH 14-15	BBCH 14-15	BBCH 20-25 (23)	BBCH 21-25 (23)	BBCH 14-15	BBCH 17-18	BBCH 19-29	BBCH 20-29
Plant development phase B	BBCH 35-39	BBCH 31-33 (32)	BBCH 39-53 (51)	BBCH 50-55 (53)	BBCH 31-32	BBCH 31-32	BBCH 31-32	BBCH 51; 50-55
Soil type	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand	clayey sand	sandy loam
pH	6,6	6,2	7,6	5,6	6	6	6,3	6,8
Water (l/ha)	200	300	200	200	200	200	300	300
Plot size	2,5x8=20m2	2,5x8,5=21,25m2	2,5x7=17,5m2	2,5x8,75=21,875 m2	2x12=24m2	2x10=20m2	3x8=24m2	3x7=21m2

Winter oilseed rape spring application

Report code	A.T/2021/077/RZO	A.T.2023.004.RZO	AF/23/RO/9/Pr/01	AF/23/RO/9/JW/02	AF/23/RO/9/Br/03	AF/23/RO/9/Ma/04	A.T.2023.005.RZO
Location	Kakulin/ Poland	Moszczenica, Chojnice / Poland	Przybroda/ Poland	Janowiec Wielkopolski/ Poland	Brody/ Poland	Machary/ Poland	Rybowo, Gołańcz/ Poland
Plant /cultivar	winter oilseed rape / LG Aviron	winter oilseed rape / Riccardo	winter oilseed rape / Harry	winter oilseed rape / Berni	winter oilseed rape/ Harry	winter oilseed rape/ Graf	winter oilseed rape/ Kuga
Seeding date	25.08.2020	24.08.2022	26.08.2022	26.08.2022	29.08.2023	17.08.2023	25.08.2022
Seeding rate	2,9 kg/ha	2,5 kg/ha	3 kg/ha	2,9 kg/ha	3,5 kg/ha	3 kg/ha	2,8 kg/ha
Forecrop	winter wheat	winter rye	winter barley	winter wheat	winter wheat	winter barley	winter wheat
Type of sprayer	BACCAI	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BACCAI
Date of treatment	15.05.2021	12.05.2023	11.05.2023	10.05.2023	11.05.2023	26.05.2023	12.05.2023
Plant development phase	BBCH 63-65	BBCH 62; 61-63	BBCH 61-62	BBCH 61-62	BBCH 65-69	BBCH 61; 60-63	BBCH 67; 65-69
Soil type	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	5,1	5,42	6	6	7	6	6,58
Water (l/ha)	300	200	200	200	200	200	300
Plot size	2,5x8=20m2	2,5x10=20m2	2,0x12=24m2	2,0x12=24m2	2,5x9=22,5m2	2x12=24m2	2,5x10=25m2

Winter oilseed rape spring application

Report code	A.T/2021/078/RZO	A.T.2023.001.RZO	AF/23/RO/9/ZI/05	AF/23/RO/9/Go/06	AF/23/RO/9/Pr/07	A.T.2023.002.RZO	A.T.2023.003.RZO
Location	Nowa Wieś Ujska/ Poland	Lusówko/ Poland	Złotniki/ Poland	Gorzyce/ Poland	Przybroda/ Poland	Motylewo, Ujście/ Poland	Wilkowo, Sępólno Krajeńskie/ Poland
Plant /cultivar	winter oilseed rape/ Atora	winter oilseed rape / Drone	winter oilseed rape / Bradley	winter oilseed rape / SY Ilona	winter oilseed rape/ Harry	winter oilseed rape/ Atora	winter oilseed rape/ Dominator
Seeding date	24.08.2020	25.08.2022	25.08.2022	20.08.2022	26.08.2023	22.08.2022	25.08.2022
Seeding rate	1,9 kg/ha	2 kg/ha	2,8 kg/ha	3 kg/ha	3 kg/ha	2,2 kg/ha	2,5 kg/ha
Forecrop	winter triticale	winter wheat	winter wheat	winter wheat	winter barley	winter wheat	winter wheat
Type of sprayer	BACCAI	BACCAI	BOSPHO	BACCAI	BOSPHO	BACCAI	BACCAI
Date of treatment	15.05.2021	01.05.2023	10.05.2023	22.05.2023	25.05.2023	17.05.2023	18.05.2023
Plant development phase	BBCH 63-64	BBCH 61; 60-62	BBCH 63; 61-65	BBCH 65; 65-67	BBCH 69; 65-69	BBCH 67; 65-69	BBCH 67; 65-69
Soil type	sandy loam	loamy sand	loamy sand	clayey sand	loamy sand	loamy sand	sandy loam
pH	7,2	6,8	6	6,6	6	7,6	5,73
Water (l/ha)	200	200	200	300	200	200	300
Plot size	2,5x8=20m2	2,5x7=17,5m2	2,0x10=20m2	3x8=24m2	2x12=24m2	2,5x7=17,5m2	2,5x9,5=23,75m2

Sugar beet

Report code	A.T/2021/079/BC	A.T/2021/080/BC	A.T/2023/006/BC	A.T/2023/007/BC	A.T/2023/008/BC	A.T/2023/009/BC	A.T/2023/010/BC
Location	Modrzew, Stęszew/ Poland	Suchary, Nakło nad Notecią/ Poland	Góra/ Poland	Trzeciewnica, Nakło nad Notecią / Poland	Ostrówek, Sośno/ Poland	Sepno, Rokietnica / Poland	Chwiram/ Poland
Plant /cultivar	sugar beet / Graciana	sugar beet / Kujavia	sugar beet / BTS 8840	sugar beet / Mazovia Rh + CR	sugar beet / Kujavia	sugar beet / Viola KWS	sugar beet / Zagłoba
Seeding date	13.04.2021	08.04.2021	14.04.2023	13.04.2023	11.04.2023	14.04.2023	11.04.2023
Seeding rate	106 TS/ha	100 TS/ha	110 TS/ha	115 TS/ha	95 TS/ha	100 TS/ha	100 TS/ha
Forecrop	winter triticale	winter oilseed rape	winter oilseed rape	winter wheat	winter wheat	winter triticale	winter wheat
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment	30.07.2021	03.08.2021	29.06.2023	02.08.2023	27.06.2023	06.07.2023	31.07.2023
Plant development phase	BBCH 39; 39-49	BBCH 39; 38-49	BBCH 38-39	BBCH 49; 39-49	BBCH 39; 37-39	BBCH 39; 38-39	BBCH 49; 39 min
Soil type	loamy sand	loamy sand	sandy loam	loamy sand	loamy sand	sandy loam	sandy loam
pH	6,1	7,5	6,58	6,66	6,51	5,12	6,8
Water (l/ha)	200	300	200	300	200	200	300
Plot size	2,5x7=17,5m2	2,5x7=17,5m2	2,5x8=20m2	2,5x8=20m2	2,5x7=17,5m2	2,5x8=20m2	2,5x7=17,5m2

Sugar beet

Report code	AF/23/BC/9/JW/1	AF/23/BC/9/Zl/2	AF/23/BC/9/Or/3	AF/23/BC/9/Br/4	AF/23/BC/9/Pr/5	AF/23/BC/9/Wyr/6	AF/23/BC/9/ZŁ/7	AF/23/BC/9/Ma/8
Location	Janowiec Wielkopolski/ Poland	Złotniki/ Poland	Orłów/ Poland	Brody/ Poland	Przybroda/ Poland	Wyręba/ Poland	Złotniki/ Poland	Machary/ Poland
Plant /cultivar	sugar beet / Jagiellon	sugar beet / Klara	sugar beet / Jagiellon	sugar beet / Jagiellon	sugar beet / Kujavia	sugar beet / SV2423	sugar beet / Jantar	sugar beet / Tradycja
Seeding date	07.04.2023	11.04.2023	13.04.2023	13.04.2023	06.04.2023	04.04.2023	11.04.2023	27.04.2023
Seeding rate	105000 P/ha	110000 P/ha	110 TS/ha	110000 P/ha	110000 P/ha	90 TS/ha	95000 P/ha	100000 P/ha
Forecrop	spring oilseed rape	spring oilseed rape	winter wheat	winter wheat	spring oilseed rape	winter barley	spring oilseed rape	winter barley
Type of sprayer	BICSPR	BICSPR	BACCAI	BICSPR	BICSPR	BACCAI	BICSPR	BOSPHO
Date of treatment	26.07.2023	10.08.2023	24.08.2023	22.08.2023	14.07.2023	21.08.2023	21.08.2023	03.08.2023
Plant development phase	BBCH 39	BBCH 49	BBCH 49	BBCH 49	BBCH 39	BBCH 39	BBCH 49	BBCH 49
Soil type	loamy sand	loamy sand	clayey sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6	7	6,6	7	6	6,7	6	6,4
Water (l/ha)	200	200	300	200	200	300	200	200
Plot size	2,5x7=32,4 m2	2,7x10=27m2	3x10=30m2	2,0x10=20m2	2,7x12=32,4m2	3x10=30m2	2,7x10=27m2	2,5x10=25m2

Sugar beet season 2024

Report code	AF/24/BC/29/Br/01	AF/24/BC/29/Pr/02	AF/24/BC/29/Zł/03
Location	Brody/ Poland	Przybroda/ Poland	Złotniki/ Poland
Plant /cultivar	sugar beet / Pulitzer	sugar beet / Jagiellon	sugar beet /Klara
Seeding date	04.04.2024	15.04.2024	04.04.2024
Seeding rate	120000 S/ha	110000 S/ha	110000 P/ha
Forecrop	maize	winter wheat	winter rye
Type of sprayer	BOSPHO	BOSPHO	BOSPHO
Date of treatment	04.07.2024	09.08.2024	03.07.2024
Plant development phase	BBCH 39	BBCH 49	BBCH 39
Soil type	loamy sand	loamy sand	loamy sand
pH	6,9	6	7
Water (l/ha)	230	200	200
Plot size	2,0x10=20m ²	2,0x10=20m ²	2,0x10=20m ²

Details of agricultural measures, fertilization, and other plant protection products applied during the experiments are included in detailed field study reports listed above.

Summary of the data from effectiveness trials can be found at Appendix 5

Table 3.4-3: Phytotoxicity of product

The 48 trials were carried out on sugar beet and winter oilseed rape in Poland in 2021, 2022, 2023 and 2024 on a wide range of commercially grown varieties. There were not observed any phytotoxicity symptoms on tested product and standard in trials.

In winter oilseed rape used twice a season (autumn/spring) the phytotoxicity was assessed after the autumn application at BBCH 14-29 and after the spring application.

Not applicable

Number of trials with		Efficacy/selectivity trials (48)		
		CHR/F/SCORPIO	Standard Amistar Gold Max	Standard II
		N	N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	-	-	n/a
	>5% to 10%	-	-	n/a
	>10% to 15%	-	-	n/a
	>15 %	-	-	n/a
Level of symptoms at the last assessments	0% to 5%	-	-	n/a
	>5% to 10%	-	-	n/a
	>10% to 15%	-	-	n/a
	>15 %	-	-	n/a

comments of ZRMS: dRR point 3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

The Applicant submitted 458 efficacy reports (for winter oilseed rape and sugar beet) where phytotoxicity of the product was carried out at the proposed maximum use rate of 1,0 L/(the lower dose rates were also tested). No symptoms of phytotoxicity were observed in efficacy trials.

3.4.2 Effect on the yield of treated plants or plant product (KCP 6.4.2)

Influence of CHR/F/SCORPIO on the yield of grains, root was evaluated in efficacy research. The yield was evaluated on the basis of harvested grains, root quantity from one hectare (t/ha). The influence of the tested product on quantity of grain was evaluated in 30 field experiments in winter oilseed rape and quantity of root was evaluated in 18 field experiments in sugar beet in Poland, 2021, 2022, 2023 and 2024. There weren't difference between the treatment objects and standard.

Winter oilseed rape application autumn and spring

table 3.4.2.1-1a The influence of the CHR/F/SCORPIO on yield quantity [t/ha]

crop			winter oilseed rape / Yield t/ha															
Report code			A.T.20 21.105. RZO	A.T.20 21.106. RZO	A.T.20 21.107. RZO	A.T.20 21.108. RZO	A.T.20 22/007/ RZO	A.T.20 22/008/ RZO	A.T.20 22/009/ RZO	A.T.20 22/010/ RZO	AF/22/ RO/33/ G/01	AF/22/ RO/33/ Pr/02	AF/22/ RO/33/ Br/03	AF/22/ RO/33/ Ma/04	AF/22/ RO/33/ Pr/01	AF/22/ RO/33/ Zl/02	AF/22/ RO/33/ Go/03	AF/22/ RO/33/ Ma/04
BBCH crop			BBCH 89	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99
date			15.07.2 022	19.07.2 022	28.07.2 022	28.07.2 022	25.07.2 023	31.07.2 023	04.08.2 023	10.08.2 023	04.08.2 023	17.07.2 023	18.07.2 023	17.07.2 023	21.07.2 023	21.07.2 023	25.07.2 023	19.07.2 023
No.	Name	Rate (l/ha)																
	1 Untreated Check		5,17	4,93	4,49	3,93	5,21	3,36	4,65	3,07	4,09	4,00	3,00	2,50	3,8	3,2	3,68	3,25
	2 CHR/F/SCORPIO 325 S.C.	0,70					5,56	3,52	4,69	3,08	4,29	4,50	3,30	2,60	3,9	3,6	4,22	3,40
	3 CHR/F/SCORPIO 325 S.C.	0,80	5,39	4,90	4,33	4,20	5,49	3,62	4,75	3,14	4,4	4,5	3,2	2,6	3,9	3,9	4,12	3,35
	4 CHR/F/SCORPIO 325 S.C.	0,90	5,47	5,05	4,48	4,21	5,66	3,73	4,78	3,20	4,1	4,5	3,4	2,6	4,1	3,9	4,19	3,41
	5 CHR/F/SCORPIO 325 S.C.	1,00	5,39	5,00	4,68	4,49	5,60	3,83	4,88	3,25	4,3	4,6	3,5	2,7	4,4	3,9	4,21	3,57
	6 Amistar Gold Max	1,00	5,29	4,89	4,54	4,23	5,60	3,52	4,83	3,25	4,2	4,5	3,2	2,7	4,1	4,0	4,23	3,53
LSD (P=.05)			0,228	0,193	0,338	0,206	0,344	0,454	0,193	0,209	0,31	0,43	0,32	0,12	0,37	0,53	0,337	0,294

Winter oilseed rape application spring

table 3.4.2.1-1b The influence of the CHR/F/SCORPIO on yield quantity [t/ha]

	crop		winter oilseed rape / Yield t/ha													
	Report code		A.T/202 1/077/R ZO	A.T/202 1/078/R ZO	A.T.202 3.001.R ZO	A.T.202 3.002.R ZO	A.T.202 3.003.R ZO	A.T.202 3.004.R ZO	A.T.202 3.005.R ZO	AF/23/R O/9/Pr/0 1	AF/23/R O/9/JW/ 02	AF/23/R O/9/Br/0 3	AF/23/R O/9/Ma/ 04	AF/23/R O/9/Zl/0 5	AF/23/R O/9/Go/ 06	AF/23/R O/9/Pr/0 7
	BBCH crop		BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99
	date		22.07.20 21	30.07.20 21	25.07.20 23	02.08.20 23	10.08.20 23	07.08.20 23	03.08.20 23	17.07.20 23	20.07.20 23	18.07.20 23	17.07.20 23	20.07.20 23	04.08.20 23	20.07.20 23
	No.	Name	Rate (l/ha)													
1	Untreated Check		4,00	4,01	4,82	3,25	4,45	3,04	4,85	3,40	3,40	4,00	3,40	4,00	3,5	4,5
2	CHR/F/SCO RPIO 325 S.C.	0,80	4,52	4,10	5,08	3,29	4,54	3,28	4,89	3,60	3,7	4,2	3,5	4,8	3,7	4,7
3	CHR/F/SCO RPIO 325 S.C.	0,90	4,53	4,22	5,01	3,43	4,62	3,22	4,98	3,70	4,0	4,4	3,7	5,0	4,3	4,6
4	CHR/F/SCO RPIO 325 S.C.	1,00	4,76	4,26	5,06	3,44	4,67	3,44	4,95	3,90	4,2	4,3	3,8	4,8	4,6	4,7
5	Amistar Gold Max	1,00	4,61	4,30	4,94	3,36	4,71	3,35	4,93	3,90	4,1	4,7	3,7	4,8	4,5	4,6
	LSD (P=.05)		0,195	0,265	0,238	0,954	0,259	0,260	0,217	0,320	0,29	0,49	0,17	0,79	0,32	0,4

Sugar beet

table 3.4.2.1-1c The influence of the CHR/F/SCORPIO on yield quantity [t/ha]

crop	Report code	BBCH crop	date	No.	1	2	3	4	5	6	
				Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
				Rate (l/ha)		0,60	0,80	0,90	1,00	1,00	
sugar beet / Yield t/ha	A.T/2021/079/BC	BBCH 49	07.10.2021		65,88	69,20	69,97	70,93	70,71	71,22	6,022
	A.T/2021/080/BC	BBCH 49	11.10.2021		57,50	60,77	63,54	64,39	65,09	65,26	3,,817
	A.T/2023/006/BC	BBCH 49	15.09.2023		86,13	89,33	90,13	89,99	90,20	89,43	8,601
	A.T/2023/007/BC	BBCH 49	19.10.2023		77,78	90,49	82,23	87,18	84,39	86,95	8,126
	A.T/2023/008/BC	BBCH 49	19.10.2023		90,47	107,96	100,07	100,31	98,27	100,89	10,658
	A.T/2023/009/BC	BBCH 49	10.10.2023		83,11	83,62	84,72	85,61	85,43	85,26	6,182
	A.T/2023/010/BC	BBCH 49	16.10.2023		93,57	94,59	97,80	96,05	97,25	99,15	8,446
	AF/23/BC/9/JW/1	BBCH 49	13.10.2023		58,83	65,33	66,64	67,75	71,69	72,11	3,909
	AF/23/BC/9/Zl/2	BBCH 49	23.10.2023		52,42	53,44	61,17	65,44	68,47	64,19	5,621
	AF/23/BC/9/Or/3	BBCH 49	25.10.2023		71,9	70,7	72,2	74,2	76,0	76,2	2,63
	AF/23/BC/9/Br/4	BBCH 49	24.10.2023		47,47	51,61	56,44	59,21	63,67	64,56	7,753
	AF/23/BC/9/Pr/5	BBCH 49	02.10.2023		54,36	55,53	58,50	61,94	62,67	63,22	6,112
	AF/23/BC/9/Wyr/6	BBCH 49	31.10.2023		70,35	70,09	69,81	71,01	70,79	70,79	2,298
	AF/23/BC/9/ZL/7	BBCH 49	24.10.2023		49,83	53,44	56,25	55,97	56,78	57,81	3,759
	AF/23/BC/9/Ma/8	BBCH 49	02.10.2023		48,33	54,08	52,83	54,11	58,58	60,00	5,138
	AF/24/BC/29/Br/01	BBCH 49	17.10.2024	I	64,06	67,97	67,25	71,42	73,03	71,47	4,054
	AF/24/BC/29/Pr/02	BBCH 49	05.11.2024	I	57,75	61,22	61,08	66,69	69,36	65,81	4,368
	AF/24/BC/29/Zl/03	BBCH 49	17.10.2024	I	56,53	59,69	61,97	64,86	63,64	63,92	2,446

comments of ZRMS: dRR point 3.4.2 Effect on the yield of treated plants or plant product (KCP 6.4.2)

The yield was assessed in 30 trials in winter oilseed rape and in 18 trials in sugar in 2021, 2022 and 2023, 2024. CHR/F/SCORPIO showed no negative impact on yield at dose rate 1,0 l/ha of winter oilseed rape and sugar beet.

Table 3.4-4: Relationship between phytotoxicity and yield.

Not applicable.

There were not observed any phytotoxicity symptoms on tested product and standard in trials. This effects didn't have any negative effect on the yield of sugar beet and winter oilseed rape.

3.4.3 Effects on the quality of plants or plant products (KCP 6.4.3)

48 trials (winter oilseed rape 30 trials, sugar beet 18 trials) studies conducted in 2021, 2022, 2023 and 2024 in Poland on winter oilseed rape 30 trials and sugar beet 18 trials had no negative impact of CHR/F/SCORPIO on quality of plants. Influence of CHR/F/SCORPIO on the quality was evaluated in efficacy/selectivity research. The influence of the tested product on quantity was evaluated in 45 field

experiments. There weren't difference between the treatment objects and standard. Details of the data shows tables below

Winter oilseed rape application autumn and spring

table 3.4.3.1-1 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape thousand weight grain [g]

crop		winter oilseed rape/ TKW (g)																	
Report code	A.T.20 21.105. RZO	A.T.20 21.106. RZO	A.T.20 21.107. RZO	A.T.20 21.108. RZO	A.T/20 22/007/ RZO	A.T/20 22/008/ RZO	A.T/20 22/009/ RZO	A.T/20 22/010/ RZO	AF/22/ RO/33/ G/01	AF/22/ RO/33/ Pr/02	AF/22/ RO/33/ Br/03	AF/22/ RO/33/ Ma/04	AF/22/ RO/33/ Pr/01	AF/22/ RO/33/ Zl/02	AF/22/ RO/33/ Go/03	AF/22/ RO/33/ Ma/04			
BBCH crop	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99			
date	02.08.2 022	02.08.2 022	11.08.2 022	10.08.2 022	31.08.2 023	09.08.2 023	28.08.2 023	23.08.2 023	04.08.2 023	20.07.2 023	21.07.2 023	20.07.2 023	21.07.2 023	21.07.2 023	25.07.2 023	19.07.2 023			
No.	Name	Rate (l/ha)																	
	Untreated Check		5,36	4,26	4,64	6,74	4,03	3,94	4,95	4,55	4,16	5,00	4,99	4,82	4,89	4,66	3,90	4,02	
	CHR/F/SC ORPIO 325 S.C.	0,7 0					4,23	3,99	5,15	4,71	4,47	5,10	5,05	5,03	4,97	4,78	4,26	4,05	
	CHR/F/SC ORPIO 325 S.C.	0,8 0	5,18	4,21	4,73	7,44	4,18	3,83	5,05	4,76	4,3	5,1	5,1	5,0	5,02	5,1	4,13	4,29	
	CHR/F/SC ORPIO 325 S.C.	0,9 0	5,25	4,43	4,69	7,11	4,28	4,11	5,08	4,79	4,4	5,1	5,1	4,9	5,21	4,9	4,07	4,14	
	CHR/F/SC ORPIO 325 S.C.	1,0 0	5,26	4,21	4,66	7,05	4,13	4,15	4,83	4,65	4,3	5,1	5,2	5,1	5,04	4,7	4,05	4,18	
6	Amistar Gold Max	1,0 0	5,26	4,23	4,70	6,99	4,23	3,83	4,90	4,74	4,2	5,2	5,2	5,1	5,04	4,8	4,21	4,24	
LSD (P=.05)			0,237	0,354	0,4	0,969	0,205	0,300	0,308	0,280	0,273	0,1663 9	0,1424	0,1907	0,1802	0,2911	0,238	0,291	

table 3.4.3.1-2 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape moisture content [%]

crop		winter oilseed rape/ moisture content %																	
Report code	A.T.20 21.105. RZO	A.T.20 21.106. RZO	A.T.20 21.107. RZO	A.T.20 21.108. RZO	A.T/20 22/007/ RZO	A.T/20 22/008/ RZO	A.T/20 22/009/ RZO	A.T/20 22/010/ RZO	AF/22/ RO/33/ G/01	AF/22/ RO/33/ Pr/02	AF/22/ RO/33/ Br/03	AF/22/ RO/33/ Ma/04	AF/22/ RO/33/ Pr/01	AF/22/ RO/33/ Zl/02	AF/22/ RO/33/ Go/03	AF/22/ RO/33/ Ma/04			
BBCH crop	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99			
date	15.07.2 022	19.07.2 022	28.07.2 022	28.07.2 022	25.07.2 023	31.07.2 023	04.08.2 023	10.08.2 023	04.08.2 023	17.07.2 023	18.07.2 023	17.07.2 023	21.07.2 023	21.07.2 023	25.07.2 023	19.07.2 023			
No.	Name	Rate (l/ha)																	
	Untreated Check		7.95	8.93	6.38	8.73	8.33	12.93	12.60	8.10	8.63	5.18	6.30	6.40	5.60	5.90	9.65	7.4	
	CHR/F/SCORPIO 325 S.C.	0,70					8.45	13.45	12.53	8.10	8.55	5.08	6.55	6.28	5.63	5.88	9.73	7.5	
	CHR/F/SCORPIO 325 S.C.	0,80	8.13	10.35	6.53	9.53	8.43	12.53	12.05	8.03	8.65	5.15	6.40	6.38	5.60	5.88	9.70	7.6	
	CHR/F/SCORPIO 325 S.C.	0,90	8.23	9.43	6.43	9.13	8.40	12.68	11.98	8.18	8.55	5.10	6.38	6.45	5.65	5.85	9.73	7.6	
	CHR/F/SCORPIO 325 S.C.	1,00	7.85	9.13	6.48	9.03	8.38	12.70	11.98	8.00	8.50	5.08	6.43	6.65	5.63	5.85	9.75	7.5	
Amistar Gold Max	1,00	7.83	9.53	6.45	9.05	8.35	12.80	12.03	8.08	8.55	5.10	6.63	6.53	5.60	5.93	9.75	7.4		
LSD (P=.05)		0.594	1.131	0.148	0.971	0.088	1.017	0.902	0.184	0.192	0.118	0.266	0.293	0.190	0.306	0.191	0.30		

table 3.4.3.1-3 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape weight 100 Ltr (hl)

crop		winter oilseed rape/ weight 100 Ltr (hl)																
Report code	A.T.20 21.105. RZO	A.T.20 21.106. RZO	A.T.20 21.107. RZO	A.T.20 21.108. RZO	A.T/20 22/007/ RZO	A.T/20 22/008/ RZO	A.T/20 22/009/ RZO	A.T/20 22/010/ RZO	AF/22/ RO/33/ G/01	AF/22/ RO/33/ Pr/02	AF/22/ RO/33/ Br/03	AF/22/ RO/33/ Ma/04	AF/22/ RO/33/ Pr/01	AF/22/ RO/33/ Zl/02	AF/22/ RO/33/ Go/03	AF/22/ RO/33/ Ma/04		
BBCH crop	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99		
date	02.08.2 022	02.08.2 022	11.08.2 022	10.08.2 022	31.08.2 023	09.08.2 023	28.08.2 023	23.08.2 023	04.08.2 023	20.07.2 023	21.07.2 023	20.07.2 023	21.07.2 023	21.07.2 023	25.07.2 023	19.07.2 023		
No.	Name	Rate (l/ha)																
	1 Untreated Check		67,13	67,80	66,43	67,00	68,73	63,05	61,20	59,18	65,75	64,53	64,45	62,85	67,10	64,10	64,85	66,33
	2 CHR/F/SCORPIO 325 S.C.	0,70					68,75	62,95	60,70	59,20	66,28	65,60	64,48	64,40	67,30	64,95	66,28	66,48
	3 CHR/F/SCORPIO 325 S.C.	0,80	67,23	67,30	66,58	66,45	68,88	63,43	60,78	59,18	65,4	65,80	65,10	63,65	68,93	65,25	66,45	66,65
	4 CHR/F/SCORPIO 325 S.C.	0,90	66,70	67,75	66,45	66,48	68,65	62,88	60,80	58,80	66,3	66,03	65,43	63,40	66,70	65,05	66,40	66,63
	5 CHR/F/SCORPIO 325 S.C.	1,00	67,15	67,38	66,48	66,60	68,55	63,10	60,70	59,38	66,5	65,33	64,83	63,98	68,15	65,98	65,73	67,15
6 Amistar Gold Max	1,00	67,05	67,38	66,48	66,60	68,80	63,58	61,08	59,78	66,8	65,70	64,58	62,70	67,58	65,88	66,98	67,08	
LSD (P=.05)			0,853	0,693	0,966	1,040	0,433	1,136	1,013	1,124	2,173	2,270	0,836	1,020	2,507	1,702	2,026	0,781

table 3.4.3.1-4 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape oil content [%]

crop		winter oilseed rape/oil content (%)																
Report code	A.T.20 21.105. RZO	A.T.20 21.106. RZO	A.T.20 21.107. RZO	A.T.20 21.108. RZO	A.T/20 22/007/ RZO	A.T/20 22/008/ RZO	A.T/20 22/009/ RZO	A.T/20 22/010/ RZO	AF/22/ RO/33/ G/01	AF/22/ RO/33/ Pr/02	AF/22/ RO/33/ Br/03	AF/22/ RO/33/ Ma/04	AF/22/ RO/33/ Pr/01	AF/22/ RO/33/ Zl/02	AF/22/ RO/33/ Go/03	AF/22/ RO/33/ Ma/04		
BBCH crop	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99		
date	02.08.2 022	02.08.2 022	11.08.2 022	10.08.2 022	31.08.2 023	09.08.2 023	28.08.2 023	23.08.2 023	04.08.2 023	20.07.2 023	21.07.2 023	20.07.2 023	21.07.2 023	20.07.2 023	25.07.2 023	19.07.2 023		
No.	Name	Rate (l/ha)																
	Untreated Check		43,15	44,03	45,03	43,15	44,13	40,48	39,30	42,38	42,26	43,98	43,85	43,60	44,28	44,18	42,36	41,95
	CHR/F/SC ORPIO 325 S.C.	0,70					43,55	40,08	39,18	41,85	42,71	44,13	44,00	43,95	44,38	44,23	42,97	42,38
	CHR/F/SC ORPIO 325 S.C.	0,80	42,93	43,08	43,93	42,30	43,48	40,58	39,83	42,30	42,8	44,20	44,08	44,03	44,48	44,30	43,4	43,0
	CHR/F/SC ORPIO 325 S.C.	0,90	43,25	43,33	44,35	42,60	43,88	40,60	39,58	41,70	43,0	44,23	44,13	44,13	44,55	44,35	43,3	43,0
	CHR/F/SC ORPIO 325 S.C.	1,00	43,15	43,65	43,98	42,58	43,80	40,03	40,23	42,40	43,0	44,25	44,15	44,13	44,63	44,38	43,2	42,9
	Amistar Gold Max	1,00	42,88	43,08	44,28	43,43	43,68	39,83	39,78	42,35	43,0	44,23	44,13	44,13	44,58	44,38	43,6	43,3
LSD (P=.05)		0,945	1,207	0,793	2,078	0,861	1,154	0,853	1,066	0,372	0,103	0,091	0,109	0,067	0,164	0,547	0,5707	

Winter oilseed rape application spring

table 3.4.3.1-5 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape thousand weight grain [g]

	crop		winter oilseed rape/ TKW (g)													
	Report code		A.T/202 1/077/R ZO	A.T/202 1/078/R ZO	A.T.202 3.001.R ZO	A.T.202 3.002.R ZO	A.T.202 3.003.R ZO	A.T.202 3.004.R ZO	A.T.202 3.005.R ZO	AF/23/R O/9/Pr/0 1	AF/23/R O/9/JW/ 02	AF/23/R O/9/Br/0 3	AF/23/R O/9/Ma/ 04	AF/23/R O/9/Zl/0 5	AF/23/R O/9/Go/ 06	AF/23/R O/9/Pr/0 7
	BBCH crop		BBCH 89	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99
	date		17.09.20 21	21.09.20 21	01.09.20 23	29.08.20 23	30.08.20 23	24.08.20 23	29.08.20 23	17.07.20 23	20.07.20 23	18.07.20 23	17.07.20 23	20.07.20 23	04.08.20 23	20.07.20 23
No.	Name	Rate (l/ha)														
	1 Untreated Check		3,62	4,29	4,40	3,93	4,80	5,15	4,95	5,49	5,60	4,57	4,73	5,21	4,6	5,0
	2 CHR/F/SCO RPIO 325 S.C.	0,80	3,63	4,37	4,23	3,58	5,05	5,43	4,88	5,58	5,7	4,8	4,9	5,4	4,7	5,0
	3 CHR/F/SCO RPIO 325 S.C.	0,90	3,53	4,22	4,38	3,90	5,00	5,25	4,95	5,93	5,8	4,8	4,8	5,4	4,7	5,1
	4 CHR/F/SCO RPIO 325 S.C.	1,00	3,65	4,17	4,38	3,75	4,93	5,23	4,85	5,58	5,8	4,9	4,9	5,6	4,8	5,3
	5 Amistar Gold Max	1,00	3,58	4,40	4,35	3,80	5,03	5,10	4,83	5,61	5,9	4,8	4,7	5,5	4,9	5,2
	LSD (P=,05)		0,300	0,260	0,305	0,412	0,380	0,468	0,304	0,385	0,242	0,325	0,172	0,52	0,078	0,112

table 3.4.3.1-6 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape moisture content [%]

crop			winter oilseed rape / moisture content %													
	Report code		A.T/202 1/077/R ZO	A.T/202 1/078/R ZO	A.T.202 3.001.R ZO	A.T.202 3.002.R ZO	A.T.202 3.003.R ZO	A.T.202 3.004.R ZO	A.T.202 3.005.R ZO	AF/23/R O/9/Pr/0 1	AF/23/R O/9/JW/ 02	AF/23/R O/9/Br/0 3	AF/23/R O/9/Ma/ 04	AF/23/R O/9/Zl/0 5	AF/23/R O/9/Go/ 06	AF/23/R O/9/Pr/0 7
	BBCH crop		BBCH 89	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99
	date		22.07.20 21	30.07.20 21	25.07.20 23	02.08.20 23	10.08.20 23	07.08.20 23	03.08.20 23	17.07.20 23	20.07.20 23	18.07.20 23	17.07.20 23	20.07.20 23	04.08.20 23	20.07.20 23
No.	Name	Rate (l/ha)														
	1 Untreated Check		8,05	6,48	8,60	11,88	9,83	11,05	7,68	5,03	5,15	6,18	6,43	7,03	8,9	5,5
	2 CHR/F/SCO RPIO 325 S.C.	0,80	8,08	6,83	8,58	11,28	9,73	10,65	7,88	5,10	5,2	6,2	6,5	6,9	8,9	5,5
	3 CHR/F/SCO RPIO 325 S.C.	0,90	7,98	6,60	8,55	12,23	9,90	10,33	7,73	5,08	5,2	6,2	6,5	7,0	9,2	5,4
	4 CHR/F/SCO RPIO 325 S.C.	1,00	8,08	6,58	8,53	11,95	9,68	10,15	7,85	5,10	5,2	6,2	6,5	7,0	9,2	5,5
	5 Amistar Gold Max	1,00	8,05	6,75	8,65	11,88	9,85	10,28	7,78	5,03	5,2	6,2	6,5	7,1	9,2	5,5
	LSD (P=,05)		0,316	0,237	0,242	1,108	0,347	0,96	0,382	0,139	0,086	0,208	0,086	0,229	0,144	0,081

table 3.4.3.1-7 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape weight 100 Ltr (hl)

No.	crop		winter oilseed rape/weight 100 Ltr (hl)													
	Report code		A.T/202 1/077/R ZO	A.T/202 1/078/R ZO	A.T.202 3.001.R ZO	A.T.202 3.002.R ZO	A.T.202 3.003.R ZO	A.T.202 3.004.R ZO	A.T.202 3.005.R ZO	AF/23/R O/9/Pr/0 1	AF/23/R O/9/JW/ 02	AF/23/R O/9/Br/0 3	AF/23/R O/9/Ma/ 04	AF/23/R O/9/Zl/0 5	AF/23/R O/9/Go/ 06	AF/23/R O/9/Pr/0 7
	BBCH crop		BBCH 89	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99
	date		17.09.20 21	21.09.20 21	01.09.20 23	29.08.20 23	30.08.20 23	24.08.20 23	29.08.20 23	17.07.20 23	20.07.20 23	18.07.20 23	17.07.20 23	20.07.20 23	04.08.20 23	20.07.20 23
	Name	Rate (l/ha)														
1	Untreated Check		68,15	66,85	68,80	64,75	60,10	57,13	67,18	64,20	65,30	65,18	64,68	64,58	65,6	64,4
2	CHR/F/SCORPIO 325 S.C.	0,80	67,88	66,55	68,68	64,48	60,38	57,50	67,13	67,48	68,5	65,9	67,6	66,3	65,8	66,3
3	CHR/F/SCORPIO 325 S.C.	0,90	67,93	67,70	68,45	64,28	60,48	57,70	67,25	65,68	67,9	65,1	67,8	69,8	66,3	67,1
4	CHR/F/SCORPIO 325 S.C.	1,00	68,13	67,20	68,68	64,53	60,20	58,20	67,25	65,55	69,6	65,7	69,8	67,9	66,8	66,0
5	Amistar Gold Max	1,00	67,70	67,15	68,60	64,40	60,38	57,60	67,03	66,30	68,8	65,5	67,7	65,6	66,0	67,3
LSD (P=,05)			0,507	0,838	0,312	0,750	0,630	0,743	0,377	3,313	2,106	0,793	4,434	4,117	1,73	2,593

table 3.4.3.1-8 The influence of the CHR/F/SCORPIO on quality of yield
Winter oilseed rape oil content [%]

crop			winter oilseed rape/oil content (%)														
No.	Report code		A.T/202 1/077/R ZO	A.T/202 1/078/R ZO	A.T.202 3.001.R ZO	A.T.202 3.002.R ZO	A.T.202 3.003.R ZO	A.T.202 3.004.R ZO	A.T.202 3.005.R ZO	AF/23/R O/9/Pr/0 1	AF/23/R O/9/JW/ 02	AF/23/R O/9/Br/0 3	AF/23/R O/9/Ma/ 04	AF/23/R O/9/Zl/0 5	AF/23/R O/9/Go/ 06	AF/23/R O/9/Pr/0 7	
	BBCH crop		BBCH 89	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 99	BBCH 99	
	date		17.09.20 21	21.09.20 21	01.09.20 23	29.08.20 23	30.08.20 23	24.08.20 23	29.08.20 23	21.07.20 23	21.07.20 23	21.07.20 23	21.07.20 23	21.07.20 23	04.08.20 23	21.07.20 23	
	Name	Rate (l/ha)															
1	Untreated Check		43,45	45,15	42,98	39,73	42,63	41,55	41,15	41,33	42,35	40,15	38,65	40,10	43,0	41,1	
2	CHR/F/SCORPIO 325 S.C.	0,80	43,73	44,95	43,55	39,83	42,40	41,93	41,50	41,45	43,3	40,4	39,0	40,3	43,5	41,2	
3	CHR/F/SCORPIO 325 S.C.	0,90	43,73	45,38	43,15	40,58	42,48	42,38	41,43	41,58	43,4	40,5	39,2	40,3	43,7	41,3	
4	CHR/F/SCORPIO 325 S.C.	1,00	43,43	44,95	43,30	40,50	42,45	42,40	41,35	41,78	43,9	40,6	39,6	40,4	43,6	41,4	
5	Amistar Gold Max	1,00	43,65	45,15	43,25	39,35	42,18	41,88	41,70	41,68	43,0	40,6	39,3	40,3	43,6	41,4	
LSD (P=,05)			0,928	0,884	0,504	1,938	0,995	1,01	0,752	0,229	0,955	0,209	1,162	0,213	0,386	0,112	

Sugar beet

table 3.4.3.1-9 The influence of the CHR/F/SCORPIO on quality of yield
sugar beet sugar content [%]

				No.	1	2	3	4	5	6	
crop	Report code	BBCH crop	date	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
				Rate (t/ha)		0,60	0,80	0,90	1,00	1,00	
sugar beet / sugar content %	A.T/2021/079/BC	BBCH 49	21.10.2021		17,62	17,93	18,40	18,21	18,58	17,63	0,791
	A.T/2021/080/BC	BBCH 49	21.10.2021		19,42	19,63	19,47	19,44	19,63	19,66	0,680
	A.T/2023/006/BC	BBCH 49	25.09.2023		14,89	15,19	15,06	15,44	15,19	15,44	0,629
	A.T/2023/007/BC	BBCH 49	15.11.2023		19,05	18,55	18,39	19,01	18,54	18,27	0,959
	A.T/2023/008/BC	BBCH 49	15.11.2023		15,79	16,06	16,00	16,14	15,72	15,94	0,802
	A.T/2023/009/BC	BBCH 49	15.11.2023		17,77	17,64	18,02	18,21	18,15	17,66	0,844
	A.T/2023/010/BC	BBCH 49	15.11.2023		18,58	18,75	18,70	18,93	18,88	18,45	0,684
	AF/23/BC/9/JW/1	BBCH 49	30.11.2023		17,30	17,48	17,68	17,38	17,60	17,58	0,556
	AF/23/BC/9/ZI/2	BBCH 49	30.11.2023		17,18	17,20	17,50	17,55	17,80	17,68	0,351
	AF/23/BC/9/Or/3	BBCH 49	30.11.2023		16,50	16,83	16,88	17,53	17,50	17,40	0,498
	AF/23/BC/9/Br/4	BBCH 49	30.11.2023		17,35	17,45	17,63	17,70	18,00	17,80	0,368
	AF/23/BC/9/Pr/5	BBCH 49	30.11.2023		17,43	17,58	17,65	17,95	18,23	17,95	0,433
	AF/23/BC/9/Wyr/6	BBCH 49	30.11.2023		17,20	17,58	17,80	18,03	17,83	17,95	0,371
	AF/23/BC/9/ZL/7	BBCH 49	30.11.2023		17,53	17,93	17,53	17,85	17,55	17,73	0,277
	AF/23/BC/9/Ma/8	BBCH 49	30.11.2023		17,85	18,15	18,00	18,18	18,65	18,08	0,573
	AF/24/BC/29/Br/01	BBCH 49	14.11.2024		17,43	17,45	17,48	17,48	17,53	17,50	0,241
	AF/24/BC/29/Pr/02	BBCH 49	25.11.2024		16,65	16,75	16,75	16,68	16,75	16,70	0,26
	AF/24/BC/29/ZI/03	BBCH 49	14.11.2024		16,93	16,93	17,00	16,95	17,10	17,00	0,286

table 3.4.3.1-10 The influence of the CHR/F/SCORPIO on quality of yield
sugar beet amino nitrogen [MM100G]

				No.	1	2	3	4	5	6	
crop	Report code	BBCH crop	date	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
				Rate (l/ha)		0,60	0,80	0,90	1,00	1,00	
sugar beet /content - amino nitrogen MM100 G	A.T/2021/079/BC	BBCH 49	21.10.2021		10,03	12,10	12,60	12,65	12,80	9,43	3,016
	A.T/2021/080/BC	BBCH 49	21.10.2021		12,73	11,15	10,75	10,68	10,50	10,20	3,514
	A.T/2023/006/BC	BBCH 49	25.09.2023		25,65	29,18	28,35	23,73	26,88	25,40	7,556
	A.T/2023/007/BC	BBCH 49	15.11.2023		13,20	14,68	11,88	11,85	12,18	15,98	5,891
	A.T/2023/008/BC	BBCH 49	15.11.2023		18,45	17,70	17,55	16,00	19,65	20,08	5,112
	A.T/2023/009/BC	BBCH 49	15.11.2023		13,13	12,88	13,98	14,08	12,60	12,85	3,800
	A.T/2023/010/BC	BBCH 49	15.11.2023		18,28	20,00	19,53	20,08	19,78	16,90	4,441
	AF/23/BC/9/JW/1	BBCH 49	30.11.2023		16,65	17,13	17,43	17,65	17,38	17,35	0,600
	AF/23/BC/9/ZI/2	BBCH 49	30.11.2023		17,05	16,95	17,38	17,55	17,85	17,80	0,459
	AF/23/BC/9/Or/3	BBCH 49	30.11.2023		17,60	17,80	17,80	17,80	18,00	18,08	0,276
	AF/23/BC/9/Br/4	BBCH 49	30.11.2023		16,83	16,93	17,18	17,28	17,68	17,58	0,452
	AF/23/BC/9/Pr/5	BBCH 49	30.11.2023		17,60	18,03	17,65	17,88	18,00	17,70	0,493
	AF/23/BC/9/Wyr/6	BBCH 49	30.11.2023		17,60	18,00	18,28	18,23	18,30	18,08	0,596
	AF/23/BC/9/ZL/7	BBCH 49	30.11.2023		17,73	17,80	17,93	18,08	18,03	17,85	0,259
	AF/23/BC/9/Ma/8	BBCH 49	30.11.2023		17,00	17,18	17,50	17,38	18,10	18,03	0,495
	AF/24/BC/29/Br/0	BBCH 49	14.11.2024		16,90	16,90	17,20	17,25	17,38	17,30	0,296
	AF/24/BC/29/Pr/02	BBCH 24	25.11.2024		16,85	16,75	17,03	16,98	16,93	16,80	0,330
	AF/24/BC/29/ZI/03	BBCH 49	14.11.2024		17,00	17,00	17,20	17,18	17,20	17,43	0,254

table 3.4.3.1-11 The influence of the CHR/F/SCORPIO on quality of yield
sugar beet content - sodium [MM100G]

				No.	1	2	3	4	5	6	
crop	Report code	BBCH crop	date	Na	Untreat	CHR/F/SCORPI	CHR/F/SCORPI	CHR/F/SCORPI	CHR/F/SCORPI	Amista	LSD (P=.05)
				e	d Check	O 325 S.C.	O 325 S.C.	O 325 S.C.	O 325 S.C.	r Gold Max	
				Rate (t/ha)		0.60	0.80	0.90	1.00	1.00	
sugar beet - content - sodium MM100 G	A.T/2021/079/BC	BBCH 49	21.10.2021		4,88	5,50	5,28	5,38	5,28	5,50	0,785
	A.T/2021/080/BC	BBCH 49	21.10.2021		3,65	3,23	3,43	2,93	3,88	3,40	1,915
	A.T/2023/006/BC	BBCH 49	25.09.2023		7,00	6,45	6,78	6,35	6,85	5,98	2,907
	A.T/2023/007/BC	BBCH 49	15.11.2023		4,15	4,05	6,30	3,93	4,83	4,93	2,275
	A.T/2023/008/BC	BBCH 49	15.11.2023		6,13	4,35	5,43	5,38	4,30	4,38	2,025
	A.T/2023/009/BC	BBCH 49	15.11.2023		7,00	5,80	5,50	6,73	6,23	5,48	1,944
	A.T/2023/010/BC	BBCH 49	15.11.2023		5,78	5,20	6,45	6,23	6,58	6,33	3,091
	AF/23/BC/9/JW/1	BBCH 49	30.11.2023		2,75	2,73	2,83	2,93	3,10	2,78	0,311
	AF/23/BC/9/ZI/2	BBCH 49	30.11.2023		2,90	2,95	3,18	3,13	3,35	3,35	0,189
	AF/23/BC/9/Or/3	BBCH 49	30.11.2023		2,33	2,40	2,45	2,45	2,60	2,78	0,226
	AF/23/BC/9/Br/4	BBCH 49	30.11.2023		3,50	3,55	3,58	3,50	3,45	3,60	0,140
	AF/23/BC/9/Pr/5	BBCH 49	30.11.2023		2,90	2,90	3,25	3,28	3,20	3,43	0,361
	AF/23/BC/9/Wyr/6	BBCH 49	30.11.2023		2,68	2,78	2,85	2,85	2,88	2,73	0,191
	AF/23/BC/9/ZL/7	BBCH 49	30.11.2023		2,85	2,80	2,88	3,00	3,15	3,13	0,258
	AF/23/BC/9/Ma/8	BBCH 49	30.11.2023		2,68	2,80	2,95	3,10	2,83	2,95	0,331
	AF/24/BC/29/Br/0	BBCH 49	14.11.2024		3,10	2,54	3,28	3,30	3,28	3,28	0,8707
	AF/24/BC/29/Pr/02	BBCH 49	25.11.2025		2,73	2,58	2,75	2,65	2,73	2,88	0,177
	AF/24/BC/29/ZI/03	BBCH 49	14.11.2024		3,10	3,18	3,10	3,10	3,20	3,20	0,212

table 3.4.3.1-12 The influence of the CHR/F/SCORPIO on quality of yield
sugar beet content - potassium [MM100G]

				No.	1	2	3	4	5	6	
crop	Report code	BBCH crop	date	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
				Rate (l/ha)		0.60	0.80	0.90	1.00	1.00	
sugar beet / content - potassium (MM100G)	A.T/2021/079/BC	BBCH 49	21.10.2021		32.68	35.08	37.65	36.30	36.73	31.13	5.925
	A.T/2021/080/BC	BBCH 49	21.10.2021		41.80	42.63	43.95	42.68	40.75	41.78	4.746
	A.T/2023/006/BC	BBCH 49	25.09.2023		46.85	47.30	48.65	45.68	46.78	49.10	4.793
	A.T/2023/007/BC	BBCH 49	15.11.2023		44.43	45.50	43.48	44.53	44.70	45.63	5.147
	A.T/2023/008/BC	BBCH 49	15.11.2023		45.48	43.30	45.90	44.63	44.65	46.58	4.578
	A.T/2023/009/BC	BBCH 49	15.11.2023		43.73	43.10	44.53	42.85	42.85	41.58	2.865
	A.T/2023/010/BC	BBCH 49	15.11.2023		49.80	49.25	51.18	51.13	48.85	49.10	2.863
	AF/23/BC/9/JW/1	BBCH 49	30.11.2023		36.98	37.88	36.78	37.78	39.30	37.93	1.797
	AF/23/BC/9/ZI/2	BBCH 49	30.11.2023		38.60	39.40	39.25	39.85	39.95	39.93	0.517
	AF/23/BC/9/Or/3	BBCH 49	30.11.2023		36.15	37.78	37.95	37.78	37.63	37.60	0.719
	AF/23/BC/9/Br/4	BBCH 49	30.11.2023		38.58	39.03	39.53	39.50	39.93	39.53	0.696

AF/23/BC/9/Pr/5	BBCH 49	30.11.2023		38,85	39,58	39,20	39,35	40,23	39,85	0,908
AF/23/BC/9/Wyr/6	BBCH 49	30.11.2023		37,45	37,93	37,68	38,03	38,15	38,13	1,047
AF/23/BC/9/ZL/7	BBCH 49	30.11.2023		37,18	37,53	38,20	38,20	38,05	38,08	0,543
AF/23/BC/9/Ma/8	BBCH 49	30.11.2023		38,10	37,83	38,25	38,28	38,80	38,30	1,413
AF/24/BC/29/Br/01	BBCH 49	14.11.2024		36,00	36,00	36,03	36,13	36,20	36,28	0,236
AF/24/BC/29/Pr/02	BBCH 49	25.11.2024		35,60	35,60	35,85	35,68	35,83	35,78	0,248
AF/24/BC/29/Zl/03	BBCH 49	14.11.2024		35,50	36,05	36,00	35,93	36,18	35,98	0,492

comments of ZRMS: dRR point 3.4.3 Effects on the quality of plants or plant products (KCP 6.4.3)

The quality of crops (oilseed rape - TKW, moisture content, weight of hl of grains, oil content; sugar beet – sugar content, content of nitrogen, sodium, potassium) was assessed in 30 trials in winter oilseed rape and in 158 trials in sugar in 2021, 2022 and 2023, 2024.

CHR/F/SCORPIO showed no negative impact on quality of plants at dose rate 1,0 l/ha of winter oilseed rape and sugar beet.

3.4.4 Effects on transformation processes (KCP 6.4.4)

According to EPPO PP 1/243 (1) „Effects of plant protection products on transformation processes” there is no need to perform studies on Industrial Processing and Household Preparation of CHR/F/SCORPIO 325 SC.

The industrial processes of winter oilseed rape or sugar beet are physical/chemical and do not depend on biological activity.

comments of ZRMS: dRR point 3.4.4 Effects on transformation processes (KCP 6.4.4)

ZRMS agrees with the Applicant's explanation. There is no need to test the product on effects on transformation processes.

3.4.5 Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)

Lack of additional tests in this range. According to EPPO standard PP 1/135 ‘Phytotoxicity assessment’ in case of fungicide there no data on plant parts for propagation are required.

There is no information available pointing to presence of any limitations to using of CHR/F/SCORPIO in seed crops of winter oilseed rape and sugar beet.

In the course of studies carried out in Poland in the season of 2021, 2022, 2023 and 2024 on product CHR/F/SCORPIO the fungicide has not been observed to have any significant influence on yield and yield quality of winter oilseed rape. What is more, there have been no phytotoxicity symptoms accounted for in various cultivars of winter oilseed rape. The residue data Part B, Section 7 demonstrate that at the proposed application rates of CHR/F/SCORPIO residues below the LOQ are found in winter oilseed rape. In that case no further testing is needed.

The product may be used in seed crops of winter oilseed rape.

comments of ZRMS: 3.4.5 Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)

No symptoms of phytotoxicity were observed in efficacy trials. Negative impact on treated plants or plant products to be used for propagation is not expected.

Summary and conclusion

The submitted efficacy data (reports from 48 field trials) and additional information fulfill requirements and conditions determined in the following EPPO guidelines:

- PP 1/135 (3) Phytotoxicity assessment
 - PP 1/152 (3) Design and analysis of efficacy evaluation trials
 - PP 1/181 (3) Conduct and reporting of efficacy evaluation trials including good experimental practice
- They were carried out on the field in the conditions of natural agrofag infestation. The efficacy trials were concluded according to the EPPO standards:
- PP 1/78(3) Root, stem, foliar and pod diseases on oilseed rape
 - PP 1/1(4) Foliar diseases on sugar beet

The studies fulfill also requirements of the Commission Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No 1107/2009 of the European Parliament and of the Council as regards the data requirements for plant protection products.

The formulation of CHR/F/SCORPIO is suspension concentrate (SC) and it comprises active substance difenoconazole 125 g/l and azoxystrobin 200 g/l. The applicant submitted 48 reports in total (18 in sugar beet, 30 in winter oilseed rape) showing the results in research into product efficacy carried out in 2021, 2022 and 2023 in sugar beet and winter oilseed rape.

The obtained data in performed trials show that CHR/F/SCORPIO 325 SC provides benefits against the most important diseases in sugar beet and winter oilseed rape as shown in the table below.

The following table describes the effectiveness of diseases

- ≥ 80% – Effectively controlled (E)
60 – 80% – Medium effectively controlled (ME)
40 – 60% – Limiting the number of pest (R)
< 40% – Not effective (N)

winter oilseed rape autumn and spring application

No	Product dose (L/ha)	EPPO code	Scientific name	Average (%) stem	Average (%) LEPTMA leaf 14-30 DA-A	Average (%) LEPTMA leaf 14-30 DA-B	Average (%) ALTEBA leaf 24-28 DA-A	Average (%) ALTEBA leaf 14-29 DA-B	Average (%) pod	Average (%) all assessment	Efficacy
1	CHR/F/SCORPIO 325 S.C. 0.7 L/ha	LEPTMA	Phoma lingam	52.95	73.20	77.89				68.01	ME
		ALTEBA	Alternaria brassicae				71.73	73.89	58.37	68.00	ME
		VERTLO	Verticillium longisporum	34.47						34.47	N
2	CHR/F/SCORPIO 325 S.C. 0.8 L/ha	LEPTMA	Phoma lingam	65.27	81.34	87.12				77.91	ME
		ALTEBA	Alternaria brassicae				83.00	85.43	72.98	80.47	E
		VERTLO	Verticillium longisporum	35.56						35.56	N
3	CHR/F/SCORPIO 325 S.C. 0.9 L/ha	LEPTMA	Phoma lingam	72.64	84.83	90.96				82.81	E
		ALTEBA	Alternaria brassicae				92.02	90.89	80.63	87.85	E
		VERTLO	Verticillium longisporum	44.16						44.16	R
4	CHR/F/SCORPIO	LEPTMA	Phoma lingam	77.71	86.90	93.98				86.20	E

	325 S.C. 1,0 L/ha	ALTEBA	<i>Alternaria brassicae</i>				94,38	93,15	85,58	91,03	E
		VERTLO	<i>Verticillium longisporum</i>	58,50						58,50	R

winter oilseed rape spring appliaction

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Average (%)	Efficacy
				stem	leaf	pod	all assessment	
1.	CHR/F/SCORPIO 325 S.C. 0,8 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	63,02		86,40	74,71	ME
		BOTRCI	<i>Botrytis cinerea</i>	78,68	67,65	78,06	74,80	ME
		ALTEBA	<i>Alternaria brassicae</i>	88,00	68,20	69,55	75,25	ME
		VERTLO	<i>Verticillium longisporum</i>	22,53			22,53	N
2.	CHR/F/SCORPIO 325 S.C. 0,9 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	76,42		95,67	86,04	E
		BOTRCI	<i>Botrytis cinerea</i>	87,80	74,60	86,22	82,87	E
		ALTEBA	<i>Alternaria brassicae</i>	94,67	71,10	76,82	80,86	E
		VERTLO	<i>Verticillium longisporum</i>	34,65			34,65	N
3.	CHR/F/SCORPIO 325 S.C. 1,0 L/ha	SCLESC	<i>Sclerotinia sclerotiorum</i>	83,72		98,43	91,08	E
		BOTRCI	<i>Botrytis cinerea</i>	95,93	83,30	91,56	90,26	E
		ALTEBA	<i>Alternaria brassicae</i>	100,00	79,60	84,60	88,07	E
		VERTLO	<i>Verticillium longisporum</i>	39,18			39,18	N

sugar beet

No.	Product dose (L/ha)	EPPO code	Scientific name	Average (%)	Average (%)	Average (%)	Average (%)	Average (%)	Average (%)	Average (%)	Efficacy
				CERCBE	CERCBE	RAMUBE	RAMUBE	ERYSBE	ERYSBE	all assessment	
				14-22 DA-A	28-43 DA-A	14-21 DA-A	28-43 DA-A	14-20 DA-A	28-43 DA-A		
1.	CHR/F/SCORPIO 325 S.C. 0,6 L/ha	CERCBE	<i>Cercospora beticola</i>	69,1	62,4					65,8	ME
		RAMUBE	<i>Ramularia beticola</i>			67,9	66,6			67,2	ME
		ERYSBE	<i>Erysiphe betae</i>					71,04	78,44	74,74	ME
2.	CHR/F/SCORPIO 325 S.C. 0,8 L/ha	CERCBE	<i>Cercospora beticola</i>	76,7	71,5					74,1	ME
		RAMUBE	<i>Ramularia beticola</i>			77,7	77,7			77,7	ME
		ERYSBE	<i>Erysiphe betae</i>					84	86,88	85,44	E
3.	CHR/F/SCORPIO 325 S.C. 0,9 L/ha	CERCBE	<i>Cercospora beticola</i>	79,5	78,3					78,9	ME
		RAMUBE	<i>Ramularia beticola</i>			83,1	82,5			82,8	E
		ERYSBE	<i>Erysiphe betae</i>					86,76	87,31	87,04	E
4.	CHR/F/SCORPIO 325 S.C. 1,0 L/ha	CERCBE	<i>Cercospora beticola</i>	87,8	85,9					86,9	E
		RAMUBE	<i>Ramularia beticola</i>			87,5	89,8			88,6	E
		ERYSBE	<i>Erysiphe betae</i>					90,66	94,87	92,76	E

Fungicide CHR/F/SCORPIO has demonstrated good crop tolerance to sugar beet and winter oilseed rape. Therefore concluded that CHR/F/SCORPIO is safe usage at proposed rate and this support the label claim for the use in sugar beet and winter oilseed rape.

Undesirable effects are not expected on succeeding crops, adjacent crop, part of plants used for propagating purposes and beneficial organisms.

According to the above, the plant protection product CHR/F/SCORPIO 325 SC can be approved to the market and use in Poland and Czech Republic according to proposed range of use – GAP

Based on submitted data the following regulation on the label is proposed:

Poland, Czech Republic

Sugar beet and winter oilseed rape:

Recommended dose at:

- winter oilseed rape: once a season CHR/F/SCORPIO 0,9-1,0 l/ha at BBCH 61-69 or twice per season CHR/F/SCORPIO 2 x 0,9-1,0 l/ha at A: BBCH 14-29, B: BBCH 31-55,
- sugar beet: once a season CHR/F/SCORPIO 0,8-1,0 l/ha at BBCH 39-49.

Recommended volume of water 200-300 l/ha

Recommended medium droplet spraying

The product CHR/F/SCORPIO should be use once or twice per season at spring post – emergence. To avoid resistance, products contain active substance with the same group shouldn't be used year after year on the same field.

Use of CHR/F/SCORPIO 325 SC according to the proposed GAP does not represent a hazard to rotational crops and does not justify a specific labelling. CHR/F/SCORPIO is not persistent in soil nor is it taken up by succeeding crops.

3.5 Observations on other undesirable or unintended side-effects (KCP 6.5)

3.5.1 Impact on succeeding crops (KCP 6.5.1)

According to EPPO guidance PP 1/207 worst case NOER from Seedling Emergence study (A. Gierbuszewska, Study code: G-08-23):

Table 3.5-1: Recalculated NOER-value for test product

Crop	Worst case NOER from seedling emergence study [ml/ha]	Recalculated NOER to g/ha using product's density = 1.1134 g/ml	Recalculated NOER from g/ha to mg/kg soil using factor 750 (5 cm depth and 1.5 g/cm soil's density)
Pisum sativum	2000	2226,80	2,9691
Helianthus annuus	2000	2226,80	2,9691
Linum usitatissimum	2000	2226,80	2,9691
Daucus carota	2000	2226,80	2,9691
Allium cepa	800	890,72	1,1876

Avena sativa	2000	2226,80	2,9691
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Predicted Environmental Concentrations (PEC) for the individual actives are performed with equations (1) and (2) (cfr. EPPO guidance PP 1/207(2)):

$$(1) \text{ PEC}_{\text{ini}} = \frac{A \cdot (1 - f_{\text{int}})}{100 \cdot d \cdot h}$$

$$(2) \text{ PEC}_{\text{act}}(t) = \text{PEC}_{\text{ini}} \cdot e^{-k \cdot t} = \text{PEC}_{\text{ini}} \cdot e^{-t \cdot \ln 2 / \text{DT50}}$$

Whereby A = application rate (g active/ha), f_{int} = fraction intercepted by crop cover (40% for winter oilseed rape two application at BBCH 14-29 - BBCH 31-53), d = depth of soil layer (cm) and bd = bulk density of soil.

DT50 = 265 days – used difenoconazole + azoxystrobin DT50 as worst case scenario for product's DT50.

winter oilseed rape application autumn and spring at BBCH 14-29 and BBCH 31-53

Table 3.5-2: PEC-values and TER-calculation of test product (difenoconazole + azoxystrobin) based on NOER-values.

Succeeding crop (1)	Days after application (2)	NOER mg/kg soil (3)	PEC (4)				TER (5)			
			mg/kg soil e.g. 5 cm	mg/kg soil e.g. 10 cm	mg/kg soil e.g. 20 cm	mg/kg soil e.g. 30 cm	NOER/PEC e.g. 5 cm	NOER/PEC e.g. 10 cm	NOER/PEC e.g. 20 cm	NOER/PEC e.g. 30 cm
<i>Pisum sativum</i>	1	2,9691	0,0009	0,0004	0,0002	0,0001	3333,3333	6666,6667	13333,3333	20000,0000
<i>Helianthus annuus</i>	1	2,9691	0,0009	0,0004	0,0002	0,0001	3333,3333	6666,6667	13333,3333	20000,0000
<i>Linum usitatissimum</i>	1	2,9691	0,0009	0,0004	0,0002	0,0001	3333,3333	6666,6667	13333,3333	20000,0000
<i>Daucus carota</i>	1	2,9691	0,0009	0,0004	0,0002	0,0001	3333,3333	6666,6667	13333,3333	20000,0000
<i>Allium cepa</i>	1	1,1876	0,0009	0,0004	0,0002	0,0001	1333,3333	2666,6667	5333,3333	8000,0000
<i>Avena sativa</i>	1	2,9691	0,0009	0,0004	0,0002	0,0001	3333,3333	6666,6667	13333,3333	20000,0000

- (1) possible following crops in a regular crop rotation
(2) adequate value for following crop in a regular crop rotation
(3) NOER-values of succeeding crops
(4) PEC (soil depth e.g. 5/20 cm)
(5) TER (soil depth e.g. 5/20 cm)

Whereby A = application rate (g active/ha), f_{int} = fraction intercepted by crop cover (80% for winter oilseed rape one application at BBCH 61-69), d = depth of soil layer (cm) and bd = bulk density of soil.
DT50 = 265 days – used difenoconazole + azoxystrobin DT50 as worst case scenario for product's DT50.

winter oilseed rape application spring at BBCH 61-69

Table 3.5-3: PEC-values and TER-calculation of test product (difenoconazole + azoxystrobin) based on NOER-values

Succeeding crop (1)	Days after application (2)	NOER mg/kg soil (3)	PEC (4)				TER (5)			
			mg/kg soil e.g. 5 cm	mg/kg soil e.g. 10 cm	mg/kg soil e.g. 20 cm	mg/kg soil e.g. 30 cm	NOER/PEC e.g. 5 cm	NOER/PEC e.g. 10 cm	NOER/PEC e.g. 20 cm	NOER/PEC e.g. 30 cm
<i>Pisum sativum</i>	1	2,9691	0,0003	0,0001	0,0001	0,0000	10000,0000	20000,0000	40000,0000	60000,0000
<i>Helianthus annuus</i>	1	2,9691	0,0003	0,0001	0,0001	0,0000	10000,0000	20000,0000	40000,0000	60000,0000

<i>Linum usitatissimum</i>	1	2,9691	0,0003	0,0001	0,0001	0,0000	10000,00000	20000,00000	40000,00000	60000,00000
<i>Daucus carota</i>	1	2,9691	0,0003	0,0001	0,0001	0,0000	10000,00000	20000,00000	40000,00000	60000,00000
<i>Allium cepa</i>	1	1,1876	0,0003	0,0001	0,0001	0,0000	4000,00000	8000,00000	16000,00000	24000,00000
<i>Avena sativa</i>	1	2,9691	0,0003	0,0001	0,0001	0,0000	10000,00000	20000,00000	40000,00000	60000,00000

- (1) possible following crops in a regular crop rotation
(2) adequate value for following crop in a regular crop rotation
(3) NOER-values of succeeding crops
(4) PEC (soil depth e.g. 5/20 cm)
(5) TER (soil depth e.g. 5/20 cm)

Whereby A = application rate (g active/ha), f_{int} = fraction intercepted by crop cover (70% for sugar beet at BBCH 39-49), d = depth of soil layer (cm) and bd = bulk density of soil.
DT50 = 265 days – used difenoconazole + azoxystrobin DT50 as worst case scenario for product's DT50.

Sugar beet application at BBCH 39-49

Table 3.5-4: PEC-values and TER-calculation of test product (difenoconazole + azoxystrobin) based on NOER-values

Succeeding crop (1)	Days after application (2)	NOER mg/kg soil (3)	PEC (4)				TER (5)			
			mg/kg soil e.g. 5 cm	mg/kg soil e.g. 10 cm	mg/kg soil e.g. 20 cm	mg/kg soil e.g. 30 cm	NOER/PEC e.g. 5 cm	NOER/PEC e.g. 10 cm	NOER/PEC e.g. 20 cm	NOER/PEC e.g. 30 cm
<i>Pisum sativum</i>	1	2,9691	0,0004	0,0002	0,0001	0,0001	6666,66667	13333,33333	26666,66667	40000,00000
<i>Helianthus annuus</i>	1	2,9691	0,0004	0,0002	0,0001	0,0001	6666,66667	13333,33333	26666,66667	40000,00000
<i>Linum usitatissimum</i>	1	2,9691	0,0004	0,0002	0,0001	0,0001	6666,66667	13333,33333	26666,66667	40000,00000
<i>Daucus carota</i>	1	2,9691	0,0004	0,0002	0,0001	0,0001	6666,66667	13333,33333	26666,66667	40000,00000
<i>Allium cepa</i>	1	1,1876	0,0004	0,0002	0,0001	0,0001	2666,66667	5333,33333	10666,66667	16000,00000
<i>Avena sativa</i>	1	2,9691	0,0004	0,0002	0,0001	0,0001	6666,66667	13333,33333	26666,66667	40000,00000

- (1) possible following crops in a regular crop rotation
(2) adequate value for following crop in a regular crop rotation
(3) NOER-values of succeeding crops
(4) PEC (soil depth e.g. 5/20 cm)
(5) TER (soil depth e.g. 5/20 cm)

Table 3.5-5: The TER values of CHR/F/SCORPIO 325 SC do exceed a trigger value 1 , then no further trials are required when:

	Date of sowing	Crop rotation
		DT50= 265
Crop		
<i>Pisum sativum</i>	April	Normal crop rotation after plowing on 5 cm depth before sowing
<i>Helianthus annuus</i>	April	Normal crop rotation after plowing on 5 cm depth before sowing
<i>Linum usitatissimum</i>	April	Normal crop rotation after plowing on 5 cm depth before sowing
<i>Daucus carota</i>	April	Normal crop rotation after plowing on 5 cm depth before sowing
<i>Allium cepa</i>	April	Normal crop rotation after plowing on 5 cm depth before sowing

<i>Avena sativa</i>	March	Normal crop rotation after plowing on 5 cm depth before sowing
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Labelling in succeeding crop sections:

- CHR/F/SCORPIO causes no risk to succeeding crops

- in normal crop rotation and in case of crop failure after ploughing on 5 cm as a succeeding crop, you can sow all crops

- in normal crop rotation and in case of crop failure without ploughing you can sow winter oilseed rape, sugar beet

comments of ZRMS: 3.5.1 Impact on succeeding crops (KCP 6.5.1)
CHR/F/SCORPIO has a fungicidal activity. Negative impact on succeeding crops is not expected. The Applicant presented relevant data confirming that thesis.

3.5.2 Impact on other plants including adjacent crops (KCP 6.5.2)

No specific studies were conducted to fill this data point.

According to EPPO 1/256 - Decision-support scheme for the risk assessment for adjacent crops - Toxicity values are compared with predicted environmental concentrations to develop a Toxicity:Exposure-Ratio (TER is calculated as the ED50-value divided by the estimated drift value Appendix 2. Progression to the next tier is warranted if the safety margin is not met, while testing is stopped if the safety margin is met or exceeded.

Tier 0: If no adverse exposure of adjacent crops will occur under field conditions (e.g. seed treatment, use of granules, application by watering can) no further testing is necessary.

Tier 1: If a relevant exposure is likely. If the plant protection product causes no phytotoxic symptoms on the plant species tested, no further testing is necessary.

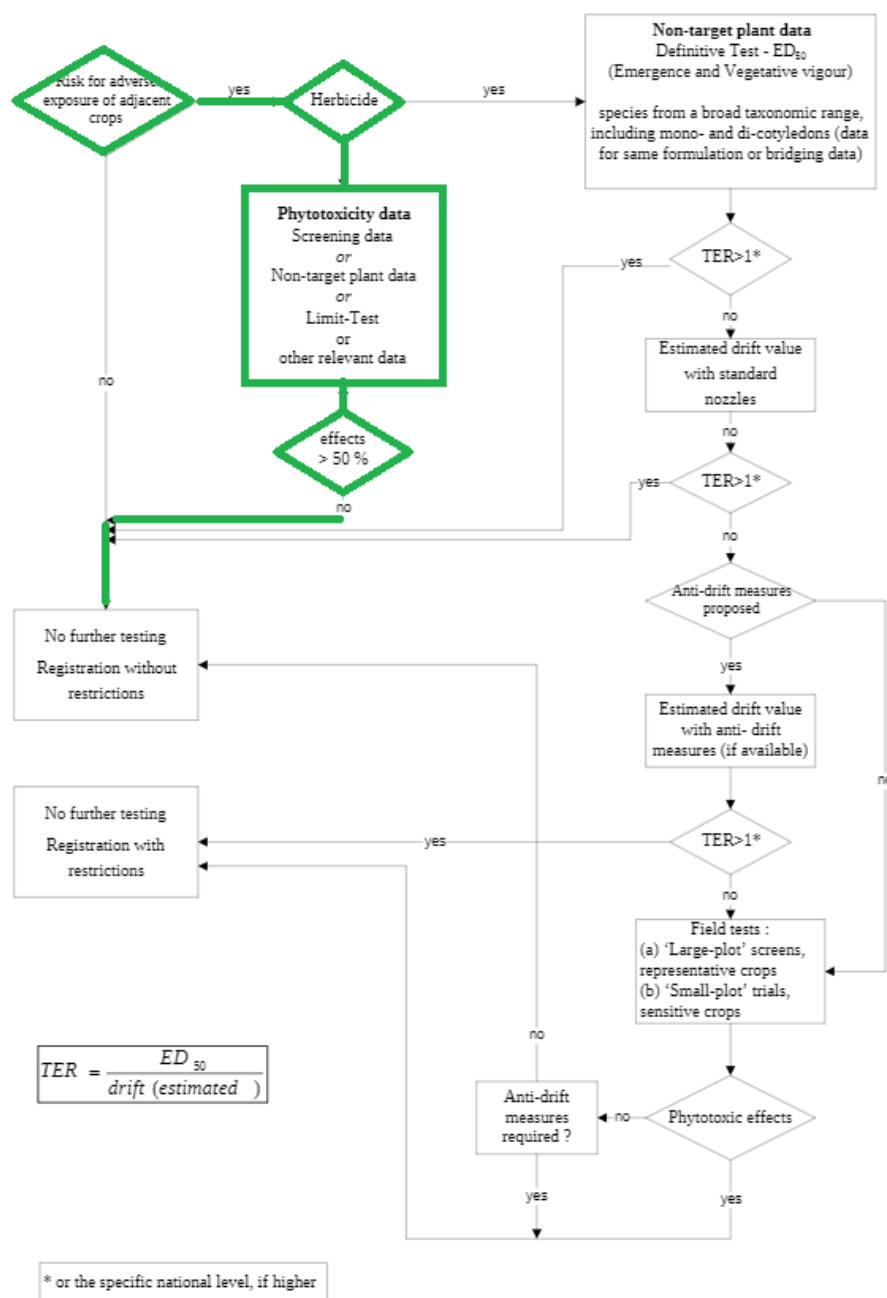
Tier 2: If phytotoxicity is observed, dose-response relationships for species representing plant families for which significant negative activity has been found should be generated to quantify the level of effect using both soil and foliar exposure scenarios.

CHR/F/SCORPIO 325 SC analyse for decision if further testing is necessary.

According EPPO 1/256, Appendix 2 Decision-support scheme for the risk assessment for adjacent crops on green applicant marked path of analyse.

PP 1/256 (1)

Appendix 2 Decision-support scheme for the risk assessment for adjacent crops



When analysing phytotoxicity CHR/F/SCORPIO 325 SC in winter oilseed rape and sugar beet there were not any phytotoxicity symptoms in all phytotoxicity trials conducted in Poland. What is more tested fungicide did not influence on yield, weight of 1000 grains, oil content, sugar content, content - amino nitrogen, content – sodium, content - potassium regardless of fungicide dose.

For all data and details with assessment of the risk for non-target plants due to the use of CHR/F/SCORPIO 325 SC please refer to section 9 Ecotoxicology point 9.10 and find results for seedling emergence and vegetative vigour. (Gierbuszewska, Study code: G-08-23 and P.Pieczka Study code G-06-23)

When analysing path for scheme in Non-target plant data, TER for all mono and dicots plants is >1 so no further testing is needed.

When phytotoxicity effects are below 50% no further testing is needed. Registration without restrictions.
When Non target plant data TER >1 no further testing is needed. Registration without restrictions.

Based on the predicted rates of CHR/F/SCORPIO 325 SC in off-field areas, the TER values describing the risk for non-target plants following exposure to CHR/F/SCORPIO 325 SC according to the GAP of the formulation CHR/F/SCORPIO 325 SC achieve the acceptability criteria without buffer zone and risk mitigation.

comments of ZRMS: 3.5.2 Impact on other plants including adjacent crops (KCP 6.5.2)
No risk is expected for adjacent crops when CHR/F/SCORPIO is used.

Tank cleaning

Cleaning of equipment should be conducted according to the following procedure:

- Immediately after spraying drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
- Rinse inside of tank with clean water and flush through boom and hoses using at least one tenth of the spray tank volume. Drain completely.
- Fill the tank with clean water and add one of the cleaning agents recommended for clean-up of spraying equipment. Agitate for a minimum of 10 min. and then flush the boom and hoses with the cleaning solution. Nozzles and filters should be removed and cleaned up separately with a recommended cleaning agent.
- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume. Drain tank completely.
- CHR/F/SCORPIO 325 SC is non-corrosive to equipment, non-flammable and non-volatile.

3.5.3 Effects on beneficial and other non-target organisms (KCP 6.5.3)

Detailed studies on the possible adverse effects to beneficial organisms are submitted and summarised in Part B, Section 9 (Ecotoxicology).

Compatibility with current management practices including IPM

Not applicable

Summary and conclusion

Not applicable

3.6 Other/special studies

Not performed

3.7 List of test facilities including the corresponding certificates

Table 3.7-1: List of test facilities

Test facility	Address	Certificate (Yes or No)
A.T Sp. z o.o.	ul. Przemysłowa 3, 88-300 Mogilno, Poland	Yes
Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department	ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Yes

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 Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6 KCP 6.2	Jan Kroehnke	2021	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied in winter oilseed rape to control rape diseases. Poland, 2021. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/077/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Kroehnke	2021	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied in winter oilseed rape to control rape diseases. Poland, 2021. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/078/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied in winter oilseed rape to control rape diseases. Poland, 2023. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/001/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied in winter oilseed rape to control rape diseases. Poland, 2023. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/002/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied in winter oilseed rape to control rape diseases. Poland, 2023. A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/003/RZO GEP - yes	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied in winter oilseed rape to control rape diseases. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/004/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied in winter oilseed rape to control rape diseases. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/005/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzełiński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation of winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/RO/9/Pr/01 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzełiński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation of winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/RO/9/JW/02 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzełiński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation of winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Poland Report no.: AF/23/RO/9/Br/03 GEP - yes Unpublished		
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation of winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/RO/9/Ma/04 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation of winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/RO/9/Zł/05 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation of winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/RO/9/Go/06 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation of winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/RO/9/Pr/07 GEP - yes	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6 KCP 6.2	Kamil Wołowicz	2021/2022	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/105/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2021/2022	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/106/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2021/2022	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/107/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2021/2022	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/108/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2022/2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2022 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2022/007/RZO	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			GEP - yes Unpublished		
KCP 6 KCP 6.2	Kamil Wołowicz	2022/2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2022 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2022/008/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2022/2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2022 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2022/009/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2022/2023	Efficacy evaluation of CHR/F/SCORPIO 325 SC when applied at autumn and spring in winter oilseed rapeto control rape diseases. Poland, 2022 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2022/010/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Phoma lingam in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/22/RO/33/G/01 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Phoma lingam in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28,	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			60-637 Poznań Poland Report no.: AF/22/RO/33/Pr/02 GEP - yes Unpublished		
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Phoma lingam in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/22/RO/33/Br/03 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Phoma lingam in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/22/RO/33/Ma/04 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Alternaria brassicae in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/22/RO/33/Pr/01 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Alternaria brassicae in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Report no.: AF/22/RO/33/Z1/02 GEP - yes Unpublished		
KCP 6 KCP 6.2	Artur Strzeński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Alternaria brassicae in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/22/RO/33/Go/03 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control Alternaria brassicae in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/22/RO/33/Ma/04 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Kroehnke	2021	Efficacy evaluation of fungicide CHR/F/SCORPIO 325 SC when applied in sugar beets to control foliar diseases on sugar beets. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/079/BC GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Jan Kroehnke	2021	Efficacy evaluation of fungicide CHR/F/SCORPIO 325 SC when applied in sugar beets to control foliar diseases on sugar beets. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2021/080/BC GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of fungicide CHR/F/SCORPIO 325 SC when applied in	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			sugar beets to control foliar diseases on sugar beets. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/006/BC GEP - yes Unpublished		
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of fungicide CHR/F/SCORPIO 325 SC when applied in sugar beets to control foliar diseases on sugar beets. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/007/BC GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of fungicide CHR/F/SCORPIO 325 SC when applied in sugar beets to control foliar diseases on sugar beets. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/008/BC GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of fungicide CHR/F/SCORPIO 325 SC when applied in sugar beets to control foliar diseases on sugar beets. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/009/BC GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Kamil Wołowicz	2023	Efficacy evaluation of fungicide CHR/F/SCORPIO 325 SC when applied in sugar beets to control foliar diseases on sugar beets. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno Poland Report no.: A.T/2023/010/BC GEP - yes Unpublished	N	Chemiroł
KCP 6	Artur Strzeziński	2023	The evaluation efficacy of product	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
KCP 6.2			CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/JW/1 GEP - yes Unpublished		
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/ZŁ/2 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/Or/3 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/Br/4 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemiroł

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/Pr/5 GEP - yes Unpublished		
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/Wyr/6 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/ZI/7 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Artur Strzeliński	2023	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/23/BC/9/Ma/8 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Artur Strzeliński	2024	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Poland	N	Chemirol

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Report no.: AF/24/BC/29/Br/01 GEP - yes Unpublished		
KCP 6 KCP 6.2	Artur Strzeński	2024	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/24/BC/29/Pr/02 GEP - yes Unpublished	N	Chemioł
KCP 6 KCP 6.2	Artur Strzeński	2024	The evaluation efficacy of product CHR/F/SCORPIO 325 SC in the control on fungal diseases in the cultivation on sugar beet. Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Poland Report no.: AF/24/BC/29/Zł/03 GEP - yes Unpublished	N	Chemioł

Appendix 2 Additional information provided by the applicant

COMPARISON OF CLIMATIC AND AGRICULTURAL CONDITIONS IN POLAND AND THE CZECH REPUBLIC IN REFERENCE TO REGISTRATION OF PLANT PROTECTION PRODUCT CHR/F/SCORPIO

1. Introduction

The purpose of the following document is to compare climatic and agricultural conditions of Poland and the Czech Republic in order to enable data from efficacy and phytotoxicity trials conducted in Poland to be used for registration purposes of autumn and spring, foliar applied, winter oilseed rape and sugar beet fungicide CHR/F/SCORPIO in the Czech Republic.

2. Plant protection products under consideration

2.1. General

2.2. The efficacy and phytotoxicity studies were conducted in Poland in 2021, 2022 and 2023 in winter oilseed rape and sugar beet. The standards were Amistar Gold Max containing the active substances: azoxystrobin, difenoconazole. Total of 48 efficacy (30 trials in winter oilseed rape and 18 trials in sugar beet) GEP trials were carried out to assess the product's efficacy and phytotoxic potential.

2.3. Products' characteristics:

Table 1. Products' characteristics

PRODUCT	CHR/F/SCORPIO 325 SC
active substance content	200 g / l azoxystrobin and 125 g / l difenoconazole
formulation	SC – Suspension Concentrate

Table 2. Properties of azoxystrobin and difenoconazole

active substance common name	Azoxystrobin	Difenoconazole
active substance chemical name	methyl (E)-2-{2[6-(2-cyanophenoxy) pyrimidin-4- yloxy]phenyl}-3-methoxyacrylate	2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl) -2-hydroxypropyl]-2,4-dihydro-3H-1,2,4-triazole-3-thione
function	azoxystrobin is a broad spectrum fungicide for the control of many plant diseases. It has the same biochemical mode of action as the naturally occurring strobilurins and is structurally related to them. Azoxystrobin ia a β -methoxyacrylate. It is included in the same chemical class as a trifloxystrobin, dimoxystrobin, fluxastrobin, picoxystrobin, pyraclostrobin and trifloxystrobin. The strobilurin azoxystrobin is a protective fungicide; it has systemic and translaminar properties and is translocated in the xylem. It inhibits spore germination and the development for control od diseases from Ascomycetes, Basidiomycetes, Deuteromycetes and Oomycetes.	Difenoconazole is a systemic (loco and leaf) fungicide that interferes with fungal sterol biosynthesis resulting in the impairment of membrane function and limitation of fungal growth. Difenoconazole is recommended for the control of steam, leaf and ear diseases of cereals including Pseudocercospora herpotrichoides, Erysiphe graminis, Puccinia striiformis, Puccinia recondita, Septoria tritici, Pyrenophora tritici repentis,Leptosphaeria nodorum, Rhizoctonia cerealis, Microdochium nivale, Fusarium spp., Rhynchosporium secalis, Pyrenophora teres, Puccinia hordei, Pseudocercospora herpotrichoides and oilseed rape diseases including Sclerotinia sclerotiorum, Leptosphaeria maculans, Pyrenopeziza brassicae, Cylindrosporium spp., Botrytis cinerea, Alternaria brassicae.
mode of action	Azoxystrobin acts by inhibiting electron transport consequently inhibiting fungal respiration	DMI fungicides act by inhibiting the Cytochrome P450-dependent C-14 demethylase reaction in fungal sterol biosynthesis. Blockage of the sterol biosynthesis leads to a reduction in the normal sterol pathway end products and an accumulation of other abnormal sterols. It is unclear which of these effects is re-sponsible for impairment of membrane function and limitation of fungal growth.
application	- winter oilseed rape: once a season at BBCH 61-69 or twice per season at A: BBCH 14-29, B: BBCH 31-55, - sugar beet: once a season at BBCH 39-49.	- winter oilseed rape: once a season at BBCH 61-69 or twice per season at A: BBCH 14-29, B: BBCH 31-55, - sugar beet: once a season at BBCH 39-49

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3. Climatic conditions

Poland and the Czech Republic are geographically very close to one another. The geographical coordinates of the Czech Republic are: latitude 49.45°N, longitude 15.30°E. The geographical coordinates of Poland are: latitude 52.00°N, longitude 20.00°E. The two countries share 615 km border .

The following map (originating from maps.google.com) illustrates the two countries.

Figure 1. Location of Poland and the Czech Republic



The following sections present and compare particular elements of Polish and Czech climate. The following parameters are compared: average monthly temperature, average maximum monthly temperature, average minimum monthly temperature, average monthly precipitation sum. To compare data in each country there were selected several locations from which average readings were calculated. The following map presents the location of climate stations included in calculations.

Figure 2. Location of climate stations

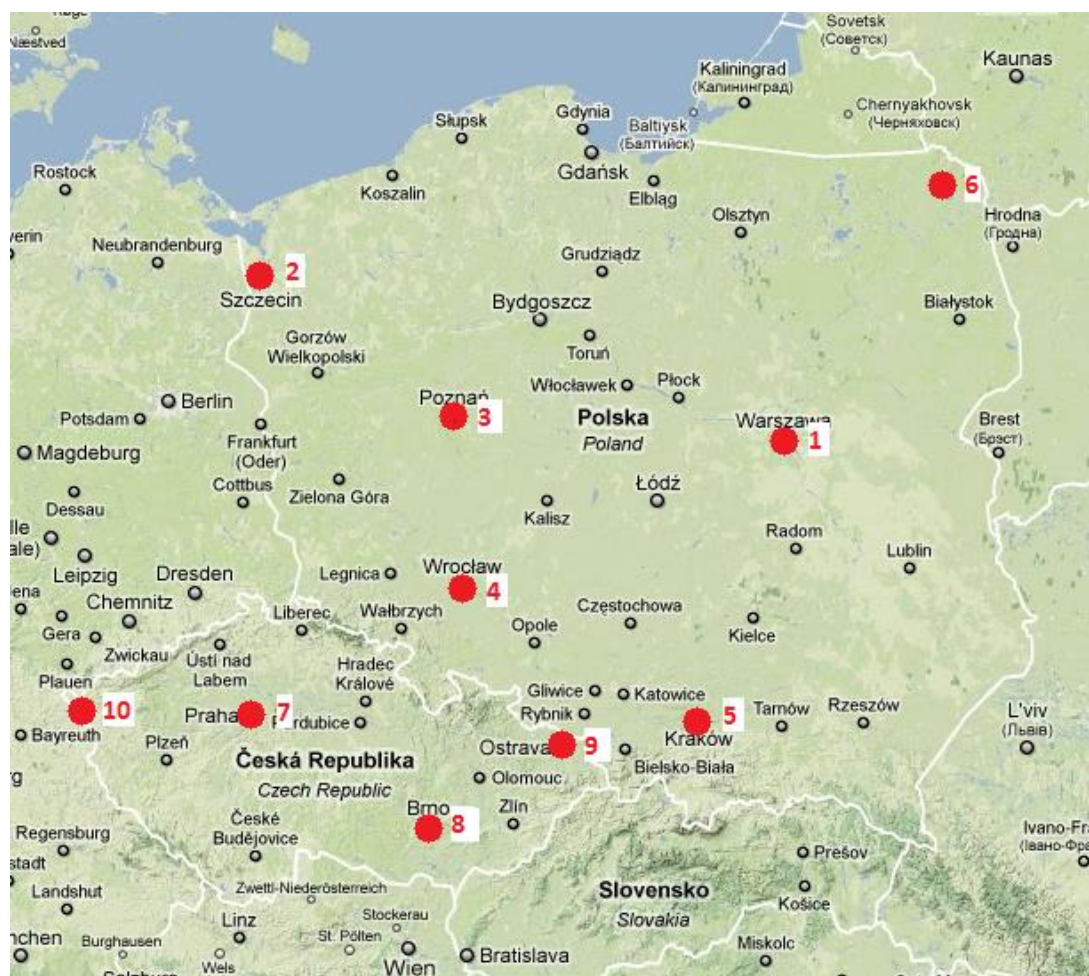


Table 3. Parameters of climate stations

Number on map	Location	Latitude	Longitude	Elevation (meters AMSL)
POLAND				
1.	Warsaw	52,10°N	20,58°E	106
2.	Szczecin	52,35°N	14,54°E	1
3.	Poznan	52,25°N	16,50°E	86
4.	Wroclaw	51,06°N	16,53°E	120
5.	Krakow	50,05°N	19,48°E	237
6.	Suwalki	54,08°N	22,57°E	186
THE CZECH REPUBLIC				
7.	Prague	50,00°N	14,40°E	303
8.	Brno	49,15°N	16,70°E	238
9.	Ostrava	49,68°N	18,10°E	256
10.	Cheb	50,08°N	12,40°E	474

data source: <http://pl.allmetsat.com/klimat/>

Climate stations were selected in a way that ensures their equal distribution throughout the area of each country. Data from Poland was collected from six stations while data from the Czech Republic was collected from four stations. The number of Czech stations is smaller than that of Polish stations as detailed climatic data was not readily available from a greater number of stations in the Czech Republic. What is more, the authors of this report believe that the number of stations taken into account is sufficient to perform the comparison of climatic conditions and that it is relative to the acreage of each country.

3.1. Average monthly temperature

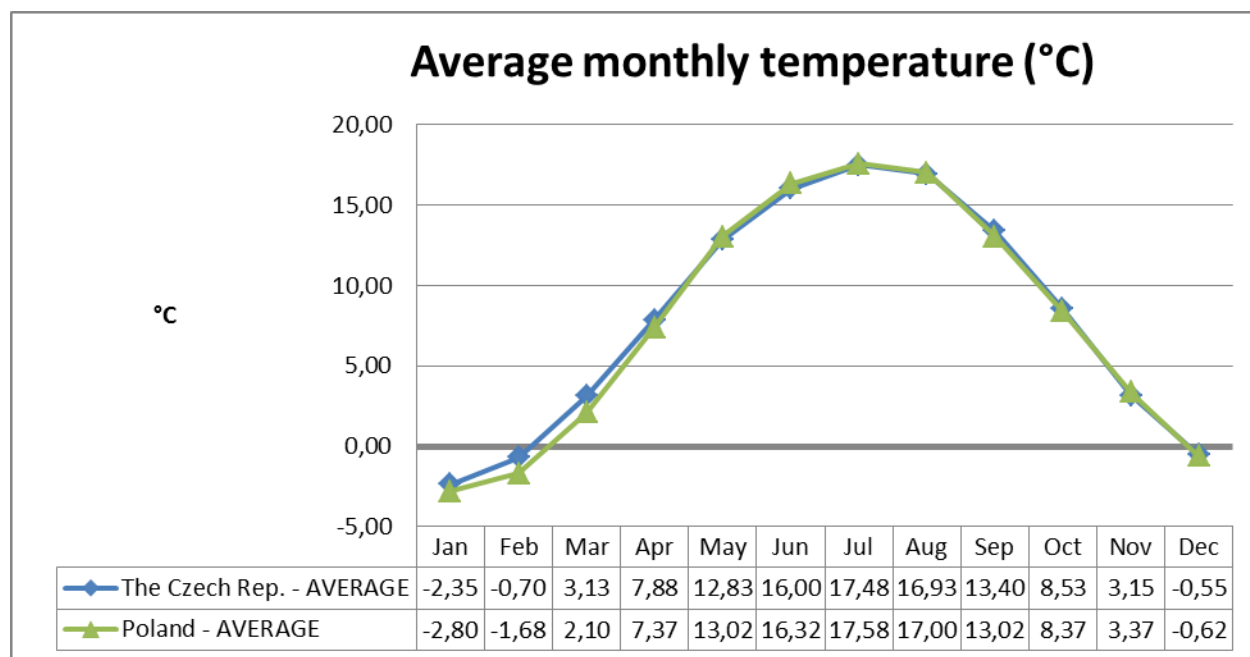
Table 4. Average monthly temperature data

Location	Average monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	-2,5	-1,2	2,4	6,7	11,7	15,0	16,5	15,8	12,5	7,8	2,4	-1,0
The Czech Rep.: Prague	-2,0	-0,6	3,1	7,6	12,5	15,6	17,1	16,6	13,2	8,3	3,0	-0,2
The Czech Rep.: Brno	-2,5	-0,3	3,8	9,0	13,9	17,0	18,5	18,1	14,3	9,1	3,5	-0,6
The Czech Rep.: Ostrava	-2,4	-0,7	3,2	8,2	13,2	16,4	17,8	17,2	13,6	8,9	3,7	-0,4
The Czech Rep. - AVERAGE	-2,35	-0,70	3,13	7,88	12,83	16,00	17,48	16,93	13,40	8,53	3,15	-0,55
Poland: Warsaw	-3,3	-2,1	1,9	7,7	13,5	16,7	18,0	17,3	13,1	8,2	3,2	-0,9
Poland: Poznan	-2,0	-1,0	2,7	7,6	13,3	16,7	18,0	17,4	13,4	8,8	3,8	-0,1
Poland: Wroclaw	-1,8	-0,5	3,2	8,0	13,1	16,5	17,7	17,2	13,4	8,9	3,9	0,2
Poland: Krakow	-3,3	-1,6	2,4	7,9	13,1	16,2	17,5	16,9	13,1	8,3	3,2	-1,0
Poland: Szczecin	-1,1	-0,3	3,0	7,4	12,9	16,4	17,7	17,2	13,5	9,2	4,4	0,8
Poland: Suwalki	-5,3	-4,6	-0,6	5,6	12,2	15,4	16,6	16,0	11,6	6,8	1,7	-2,7
Poland - AVERAGE	-2,80	-1,68	2,10	7,37	13,02	16,32	17,58	17,00	13,02	8,37	3,37	-0,62

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA).

Figure 3. Average monthly temperature graph



The table and graph above show that average temperature in Poland and in the Czech Republic is very similar. There are slight differences only in the winter months. The time which is of most importance to the application of product CHR/F/SCORPIO is autumn and spring. It is so because product CHR/F/SCORPIO is to be applied in the spring in winter oilseed rape BBCH 61-69, in sugar beet 39-49, and twice per season autumn and spring in winter oilseed rape at BBCH 14-29, B: BBCH 31-55. In the months of April through May there is a close correlation between average temperatures in Poland and in the Czech Republic.

3.2. Average maximum monthly temperature

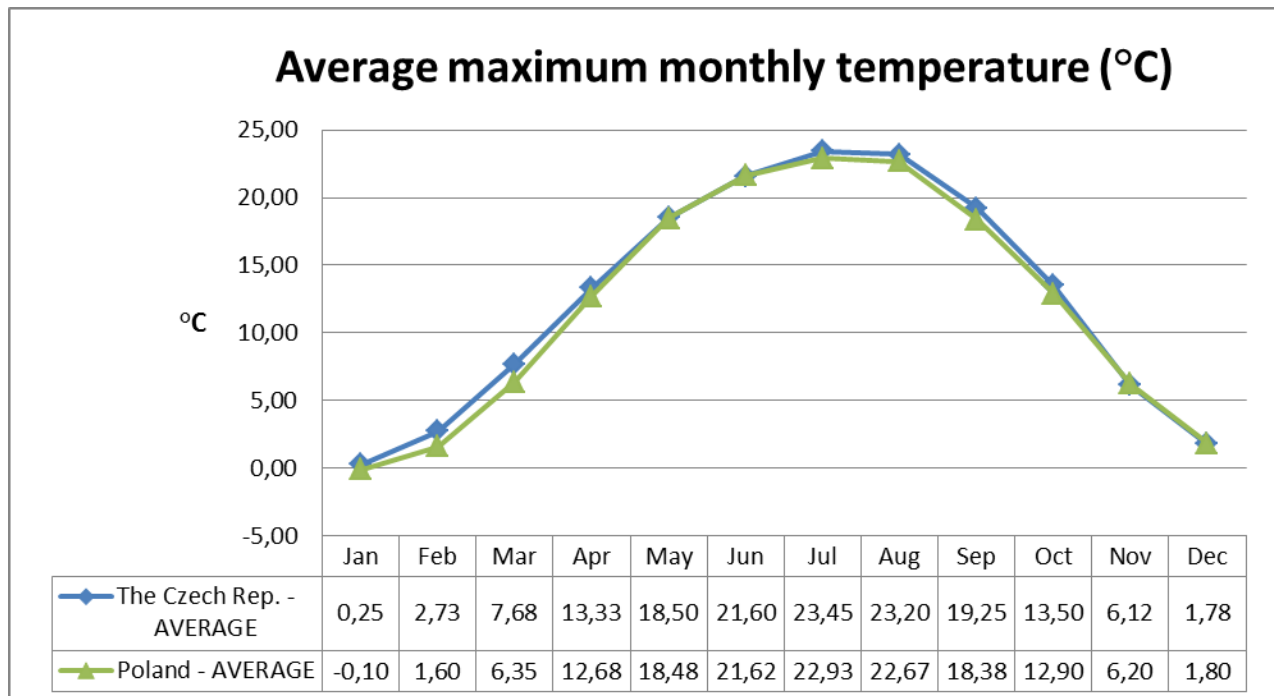
Table 5. Average maximum monthly temperature data

Location	Average maximum monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	0,0	2,3	7,0	12,2	17,4	20,6	22,4	22,2	18,5	12,8	5,2	1,3
The Czech Rep.: Prague	0,4	2,7	7,7	13,2	18,3	21,4	23,3	23,0	19,0	13,1	6,0	1,9
The Czech Rep.: Brno	0,2	3,1	8,4	14,4	19,5	22,5	24,5	24,2	20,1	14,1	6,6	1,9
The Czech Rep.: Ostrava	0,4	2,8	7,6	13,5	18,8	21,9	23,6	23,4	19,4	14,0	6,7	2,0
The Czech Rep. - AVERAGE	0,25	2,73	7,68	13,33	18,50	21,60	23,45	23,20	19,25	13,50	6,13	1,78
Poland: Warsaw	-0,7	1,0	6,0	12,9	18,8	22,0	23,3	22,9	18,3	12,7	5,9	1,4
Poland: Poznan	0,5	2,2	6,8	13,0	18,8	22,1	23,5	23,1	18,7	13,1	6,4	2,2
Poland: Wrocław	1,3	3,2	7,9	13,6	18,8	22,0	23,4	23,2	19,3	14,1	7,4	3,0
Poland: Krakow	-0,1	2,1	7,1	13,5	18,7	21,6	23,0	22,8	18,8	13,8	6,8	1,8
Poland: Szczecin	1,3	2,8	7,2	12,6	18,4	21,6	22,8	22,6	18,6	13,1	6,9	3,0
Poland: Suwalki	-2,9	-1,7	3,1	10,5	17,4	20,4	21,6	21,4	16,6	10,6	3,8	-0,6
Poland - AVERAGE	-0,10	1,60	6,35	12,68	18,48	21,62	22,93	22,67	18,38	12,90	6,20	1,80

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA).

Figure 4. Average maximum monthly temperature graph



The table and graph above present the average maximum temperature in each month. It is clear that maximum temperature in Poland and in the Czech Republic is very similar. In the autumn and spring months that are crucial to the application of product CHR/F/SCORPIO average maximum temperature in both countries differs by no more than 0,65°C.

3.3. Average minimum monthly temperatures

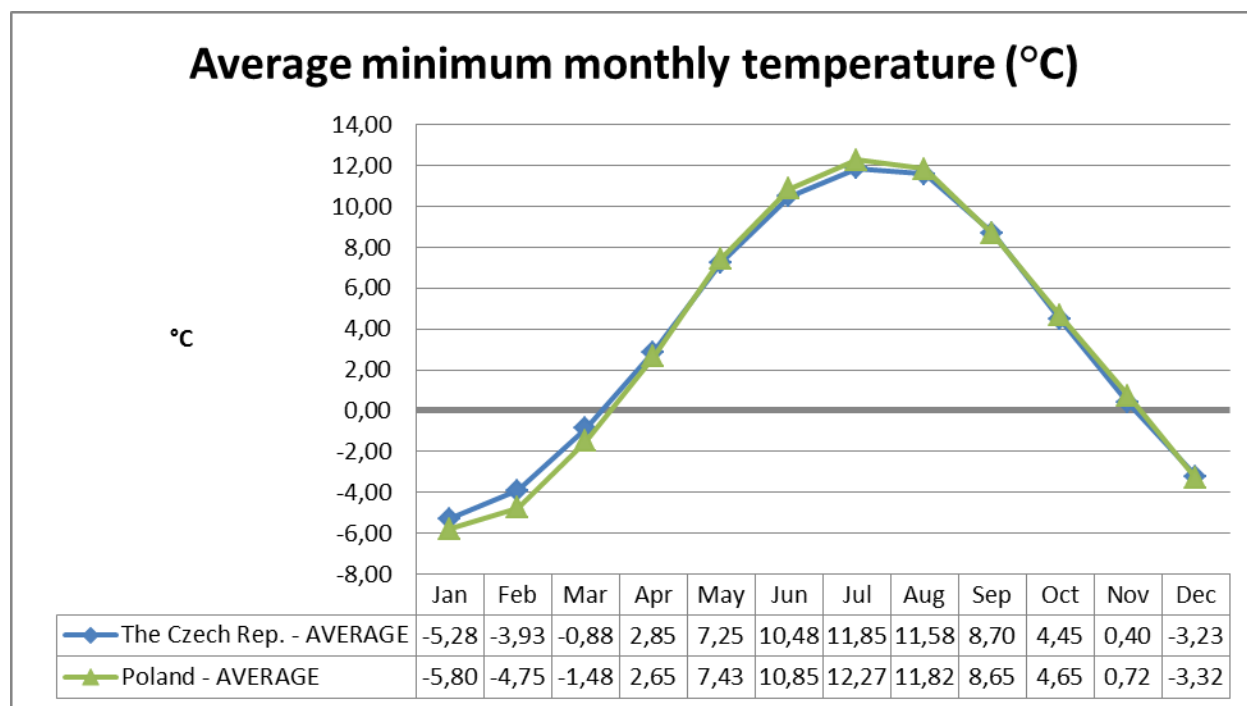
Table 6. Average minimum monthly temperature data

Location	Average minimum monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	-5,0	-4,1	-1,2	2,1	6,3	9,6	11,0	10,6	8,0	4,1	0,0	-3,3
The Czech Rep.: Prague	-5,3	-4,2	-1,3	2,4	7,1	10,4	11,8	11,5	8,6	4,0	-0,2	-3,4
The Czech Rep.: Brno	-5,2	-3,3	-0,2	3,9	8,3	11,3	12,7	12,6	9,5	5,0	0,9	-3,0
The Czech Rep.: Ostrava	-5,6	-4,1	-0,8	3,0	7,3	10,6	11,9	11,6	8,7	4,7	0,9	-3,2
The Czech Rep. - AVERAGE	-5,28	-3,93	-0,88	2,85	7,25	10,48	11,85	11,58	8,70	4,45	0,40	-3,23
Poland: Warsaw	-6,1	-5,0	-1,5	3,0	8,0	11,3	12,6	12,1	8,7	4,5	0,8	-3,4
Poland: Poznan	-4,8	-3,9	-0,8	2,8	7,7	11,2	12,5	12,2	9,0	5,3	1,2	-2,6
Poland: Wroclaw	-5,3	-4,0	-0,9	2,8	7,1	10,7	12,0	11,6	8,7	4,6	0,6	-3,1
Poland: Krakow	-6,7	-4,8	-1,3	3,0	7,6	10,8	12,2	11,8	8,6	4,2	0,2	-4,0
Poland: Szczecin	-3,7	-3,1	-0,4	2,9	7,5	11,1	12,9	12,3	9,5	5,8	2,0	-1,6
Poland: Suwalki	-8,2	-7,7	-4,0	1,4	6,7	10,0	11,4	10,9	7,4	3,5	-0,5	-5,2
Poland - AVERAGE	-5,80	-4,75	-1,48	2,65	7,43	10,85	12,27	11,82	8,65	4,65	0,72	-3,32

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA) .

Figure 5. Average minimum monthly temperature graph



Average minimum monthly temperature in Poland and in the Czech Republic follows almost the same pattern, therefore, it is comparable.

3.4. Average monthly precipitation sum

Table 7. Average monthly precipitation sum data

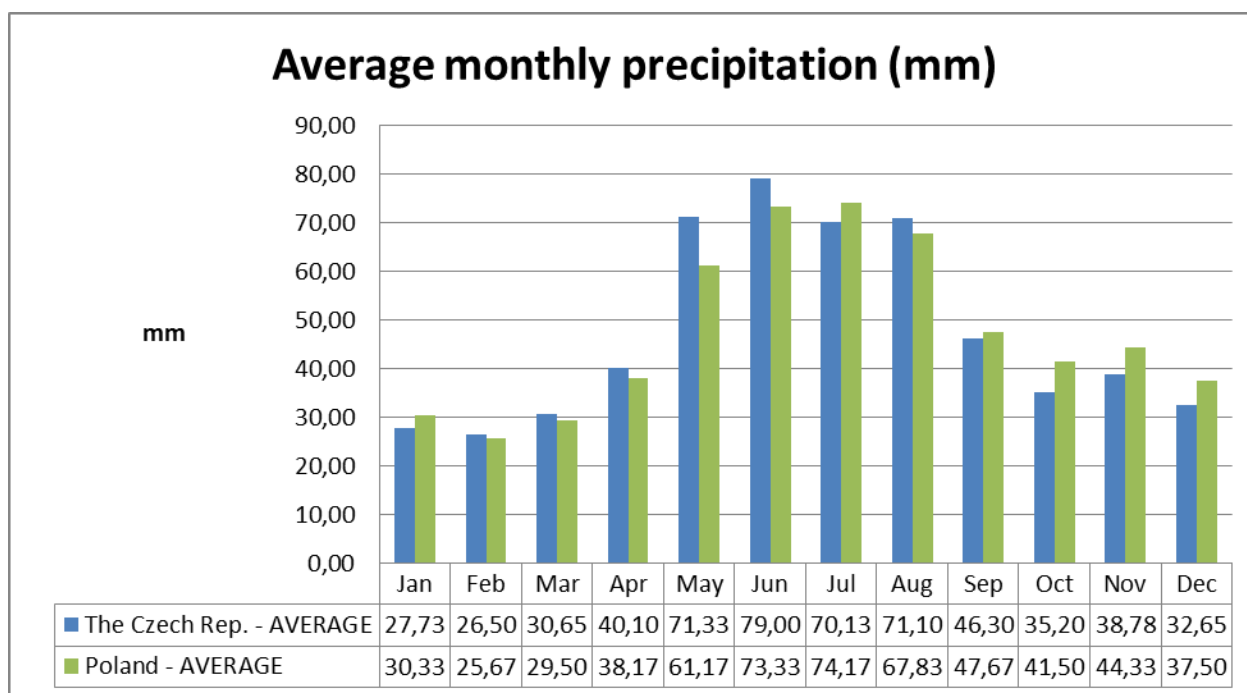
Location	Average monthly precipitation sum (mm)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	36,1	29,5	36,3	38,3	56,0	66,9	59,2	66,5	48,4	37,5	41,1	43,9

The Czech Rep.: Prague	23,6	22,6	28,1	38,2	77,2	72,7	66,2	69,6	40,4	30,5	31,9	25,3
The Czech Rep.: Brno	24,5	23,7	24,2	31,5	60,9	72,0	64,0	56,5	37,6	30,5	37,5	27,1
The Czech Rep.: Ostrava	26,7	30,2	34,0	52,4	91,2	104,4	91,1	91,8	58,8	42,3	44,6	34,3
The Czech Rep. - AVERAGE	27,73	26,50	30,65	40,10	71,33	79,00	70,13	71,10	46,30	35,20	38,78	32,65
Poland: Warsaw	22	21	26	33	58	71	69	62	43	37	41	32
Poland: Poznan	30	24	27	36	53	60	69	57	43	39	39	38
Poland: Wroclaw	28	26	26	39	64	80	84	78	48	40	43	34
Poland: Krakow	34	32	34	48	83	97	85	87	54	46	45	41
Poland: Szczecin	36	27	32	38	52	57	61	55	44	38	46	41
Poland: Suwalki	32	24	32	35	57	75	77	68	54	49	52	39
Poland - AVERAGE	30,33	25,67	29,50	38,17	61,17	73,33	74,17	67,83	47,67	41,50	44,33	37,50

data source:

<http://www.climate-charts.com/>; NOAA Global Climate Normals 1961-1990; National Oceanic and Atmospheric Administration (NOAA).

Figure 6. Average monthly precipitation sum graph



Average monthly precipitation sum in Poland and in the Czech Republic is similar. The graph above shows that there is slightly more precipitation in the Czech Republic in the first half of the year while the situation is reversed in the second half of the year. The greatest difference in average precipitation sum is noted in the month of May – 10,16 mm. Possible heavier rainfall in May would not influence the product's efficacy since it would have been absorbed by leaves shortly after application.

4. Soil conditions

Soil conditions in Poland and in the Czech Republic are not compared.

As has been mentioned above in Table 2. Azoxystrobin and Difenconazole acts primarily through foliar uptake with little or no soil activity. This allows authors of this report to disregard soil conditions as they have very limited or no influence on the efficacy of the product.

5. Agricultural practice

5.1. Winter oilseed rape sowing timing

According to the MOCA Study carried out by The MARS STAT Action in Poland sowing of winter wheat takes place in August (depending on the region term of sowing ranges from August 1th till August 25th). In the Czech Republic term of sowing of winter wheat is similar – the optimum sowing time is August 10th till August 31th.

5.2. Winter oilseed rape growth and development

Figure 1. Phenological crop calendar for winter oilseed rape in Poland

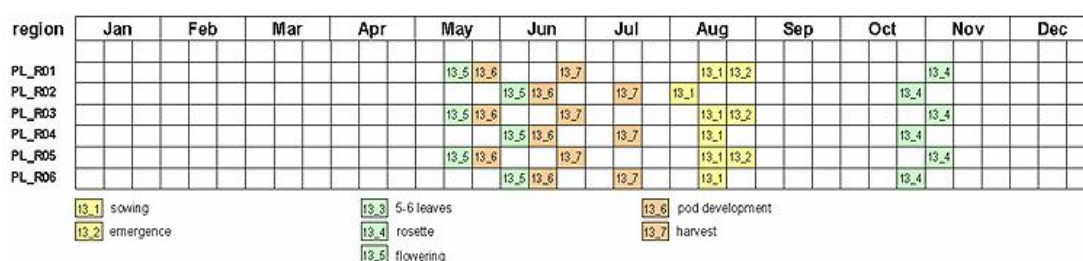
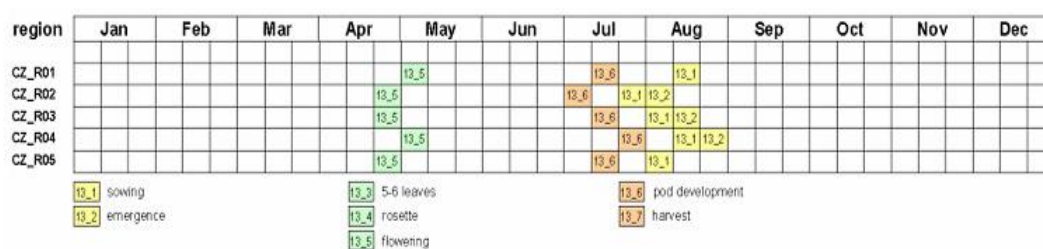


Figure 2. Phenological crop calendar for winter oilseed rape in the Czech Republic



In general, it may be stated that winter oilseed rape develops in a similar way in Poland and in the Czech Republic.

5.3. Sugar beet sowing timing

According to the MOCA Study carried out by The MARS STAT Action in Poland sowing of winter wheat takes place in April (depending on the region term of sowing ranges from April 1th till April 30th). In the Czech Republic term of sowing of winter wheat is similar – the optimum sowing time is March 15th till April 25th.

5.4. Sugar beet growth and development

Figure 3. Phenological crop calendar for sugar beet in the Poland

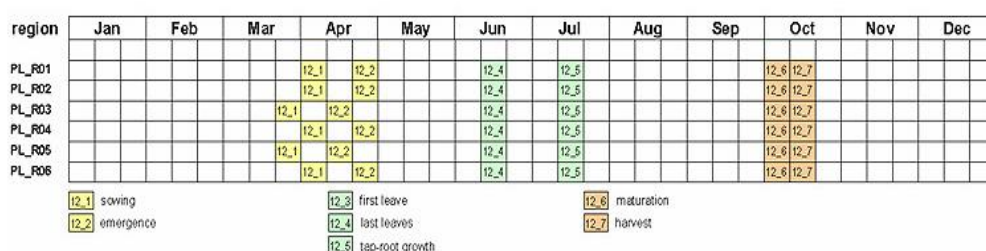


Figure 4. Phenological crop calendar for sugar beet in the Czech Republic



5.5. Timing of application

- winter oilseed rape: once a season CHR/F/SCORPIO 0,9-1,0 l/ha at BBCH 61-69 or twice per season CHR/F/SCORPIO 2 x 0,9-1,0 l/ha at A: BBCH 14-29, B: BBCH 31-55,
- sugar beet: once a season CHR/F/SCORPIO 0,8-1,0 l/ha at BBCH 39-49.

Recommended volume of water 200-300 l/ha

5.6. Target pest

The most important pest risk according of the MOCA Study in the Poland and Czech Republic

No.	Crop	Poland	Czech Republic
1	Sugar beet	Cercospora beticola	Pythium
		Erysiphe betae	Fusarium sp.
		Aphanomyces cochlioides, Rhizoctonia solani, Fusarium oxysporum	Erysiphe betae
		Aphanomyces cochlioides, Rhizoctonia solani, Phoma betae	Rhizomania
2	Winter oilseed rape	Phoma lingam	Phoma lingam
		Sclerotinia sclerotium	Sclerotinia sclerotium
		Alternaria spp.	
		Botrytis cinerea	

In summary, it may be stated that the most problematic pest species in winter oilseed rape and sugar beet in Poland and in the Czech Republic are comparable and they are almost all controlled by CHR/F/SCORPIO containing difenoconazole and azoxystrobin. Therefore product CHR/F/SCORPIO is expected to be equally highly efficient in both Poland and in the Czech Republic.

1. Conclusion

Poland and the Czech Republic are neighboring countries. Both lie in central Europe in the moderate climate zone. They share not only the border but also important climatic characteristics. Yearly temperature and precipitation patterns are very similar in both countries. This has influence on the agricultural practice in these countries and on the development of cultivated crops. Winter oilseed rape and sugar beet which are of interest to the authors of this report, go through its development phases at relatively close calendar dates. What is more, the greatest pest problems are posed by almost the same in both countries. All of these and many more are targeted by azoxystrobin and difenoconazole which are the active substance of product CHR/F/SCORPIO.

In conclusion, authors of this report state that Poland and the Czech Republic share many elements of climatic and agricultural conditions. This allows efficacy and phytotoxicity study results acquired in Poland to be used in registration procedures in the Czech Republic.

Appendix 3 Summary of data on trials site and application details per use

Test report/ research number (1)	Trial location (2); Crop cultivar; F/G (3); N/A (4)	Testing Unit (5)	Test method (6); Plot size; Sample size (7)	Treatment			
				Growth stage (8)	Interval	Total number	Spray volume (L/ha)
A.T.2021.105.RZO	Brzoza / Poland winter oilseed rape / Aganos F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x7=17,5m ²	BBCH 14-15 BBCH 31-32	186	2	200
A.T.2021.106.RZO	Kakulin/ Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x2=20m ²	BBCH 14-18 BBCH 50-55	197	2	300
A.T.2021.107.RZO	Nowa Wieś Ujska/Poland Winter oilseed rape/Temptation F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x8=20m ²	BBCH 14-15 BBCH 35-39	209	2	200
A.T.2021.108.RZO	Jęczniki Wielkie/Poland Winter oilseed rape/ Riccardo F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2,5x9=22,5m ²	BBCH 17-19 BBCH 51-55	171	2	300
A.T/2022/007/RZO	Lusówko/Poland Winter oilseed rape/ Drone F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x7=17,5m ²	BBCH 20-21 BBCH 50-55	187	2	200
A.T/2022/008/RZO	Motylewo/Poland Winter oilseed rape/Atora F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x7=17,5m ²	BBCH 20-25 BBCH 39-53	179	2	200
A.T/2022/009/RZO	Sępólno Krajeńskie/Poland Winter oilseed rape/Batis F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x8,75=21,875 m ²	BBCH 21-25 BBCH 50-55	174	2	200
A.T/2022/010/RZO	Moszczenica// Poland winter oilseed rape / LG Auckland F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x8,5=21,25m ²	BBCH 14-15 BBCH 31-33	200	2	300
AF/22/RO/33/G/01	Gorzyce/ Poland winter oilseed rape / Kadore F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 3x8=24m ²	BBCH 14-15 BBCH 31	189	2	300
AF/22/RO/33/Pr/02	Przybródka// Poland winter oilseed rape / Alibaba F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2x12=24m ²	BBCH 17 BBCH 32	162	2	200

AF/22/RO/33/Br/03	Brody / Poland Winter oilseed rape / Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2.5x9=22,5m ²	BBCH 20 BBCH 50	145	2	200
AF/22/RO/33/Ma/04	Machary / Poland Winter oilseed rape / Graf F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2x10=20m ²	BBCH 20 BBCH 32	160	2	200
AF/22/RO/33/Pr/01	Przybroda / Poland winter oilseed rape/ Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2x12=24m ²	BBCH 14-15 BBCH 31-32	196	2	200
AF/22/RO/33/Zi/02	Złotniki /Poland winter oilseed rape /Bradley F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2x10=20m ²	BBCH 17-18 BBCH 31-32	175	2	200
AF/22/RO/33/Go/03	Gosławice /Poland winter oilseed rape / Chopin F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 3x8=24m ²	BBCH 19-29 BBCH 31-32	192	2	300
AF/22/RO/33/Ma/04	Małujowice /Poland winter oilseed rape / SY Ilona F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 3x7=21m ²	BBCH 20-29 BBCH 50-55	154	2	300
A.T/2021/077/RZO	Kakulin/Poland winter oilseed rape / LG Aviron F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x8=20 m ²	BBCH 55-63	n/a	1	300
A.T/2021/078/RZO	Nowa Wieś Ujska/Poland winter oilseed rape / Atora F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2.5x9=22.5m ²	BBCH 63-64	n/a	1	200

A.T.2023.001.RZO	Lusówko/Poland winter oilseed rape / Drone F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2,5x7=17,5m ²	BBCH 60-62	n/a	1	200
A.T.2023.002.RZO	Motylewo, Ujście/Poland winter oilseed rape / Atora F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2,5x7=17,5m ²	BBCH 65-69	n/a	1	200
A.T.2023.003.RZO	Wilkowo, Sępólno Krajeńskie/Poland winter oilseed rape / Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2,5x9,5=23,75m ²	BBCH 65-69	n/a	1	300
A.T.2023.004.RZO	Moszczenica, Chojnice /Poland winter oilseed rape / Riccardo F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2,5x10=20m ²	BBCH 61-63	n/a	1	200
A.T.2023.005.RZO	Rybowo, Gołańcz/Poland winter oilseed rape / Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP 1/78(4) 2,5x10=25m ²	BBCH 65-69	n/a	1	300
AF/23/RO/9/Pr/01	Przybroda/Poland winter oilseed rape / Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2,0x12=24m ²	BBCH 61-62	n/a	1	200
AF/23/RO/9/JW/02	Janowiec Wielkopolski/Poland winter oilseed rape / Berni F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2,0x12=24m ²	BBCH 61-62	n/a	1	200
AF/23/RO/9/Br/03	Brody/ Poland winter oilseed rape / Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2,5x9=22,5m ²	BBCH 65-69	n/a	1	200
AF/23/RO/9/Ma/04	Machary/Poland winter oilseed rape / Graf F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637	EPPO PP 1/78(4) 2x12=24m ²	BBCH 61	n/a	1	200

		Poznań, Poland					
AF/23/RO/9/Zł/05	Złotniki/Poland winter oilseed rape / Bradley F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2x10=20m2	BBCH 63	n/a	1	200
AF/23/RO/9/Go/06	Gorzyce/Poland winter oilseed rape / SY Ilona F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 3x8=24m2	BBCH 65	n/a	1	300
AF/23/RO/9/Pr/07	Przybroda/Poland winter oilseed rape / Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/78(4) 2x12=24m2	BBCH 69	n/a	1	200
A.T/2021/079/BC	Modrze, Stęszew/ /Poland Sugar beet /Graciana F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP PP 1/1(4) 2,5x7=17,5m2	BBCH 39	n/a	1	200
A.T/2021/080/BC	Suchary, Nakło nad Notecią/ /Poland Sugar beet / Kujavia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP PP 1/1(4) 2,5x7=17,5m2	BBCH 39	n/a	1	300
A.T/2023/006/BC	Góra /Poland Sugar beet / BTS 8840 F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP PP 1/1(4) 2,5x8=20m2	BBCH 38-39	n/a	1	200
A.T/2023/007/BC	Trzeciewnica, Nakło nad Notecią /Poland Sugar beet / Mazovia Rh + CR F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP PP 1/1(4) 2,5x8=20m2	BBCH 49	n/a	1	300
A.T/2023/008/BC	Ostrówek, Sośno /Poland Sugar beet / Kujavia F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP PP 1/1(4) 2,5x7=17,5m2	BBCH 39	n/a	1	200
A.T/2023/009/BC	Sepno, Rokietnica /Poland Sugar beet / Viola KWS F	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP PP 1/1(4) 2,5x8=20m2	BBCH 39	n/a	1	200

	N						
A.T/2023/010/BC	Chwiram /Poland Sugar beet / Zagloba F N	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	EPPO PP PP 1/1(4) 2,5x7=17,5m2	BBCH 49	n/a	1	300
AF/23/BC/9/JW/1	Janowiec Wielkopolski /Poland Sugar beet / Jagiellon F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 2,5x7=32,4 m2	BBCH 39	n/a	1	200
AF/23/BC/9/Z1/2	Złotniki /Poland Sugar beet / Klara F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 2,7x10=27m2	BBCH 49	n/a	1	200
AF/23/BC/9/Or/3	Orłów/ P /Poland Sugar beet / Jagiellon F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 3x10=30m2	BBCH 49	n/a	1	300
AF/23/BC/9/Br/4	Brody /Poland Sugar beet /Jagiellon F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 2,0x10=20m2	BBCH 49	n/a	1	200
AF/23/BC/9/Pr/5	Przybroda/Poland Sugar beet / Kujavia F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 3x10=30m2	BBCH 39	n/a	1	300
AF/23/BC/9/Wyr/6	Wyreba /Poland Sugar beet / SV2423 F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 3x10=30m2	BBCH 39	n/a	1	300
AF/23/BC/9/ZŁ/7	Złotniki/Poland Sugar beet / Jantar F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy	EPPO PP PP 1/1(4) 2,7x10=27m2	BBCH 49	n/a	1	200

		Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland					
AF/23/BC/9/Ma/8	Machary /Poland Sugar beet / Tradycja F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 2,5x10=25m2	BBCH 49	n/a	1	200
AF/24/BC/29/Br/01	Brody/Poland Sugar beet / Pulitzer F N	Poznań University of Life Sciences, Research and Education Center Złotniki, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 2,0x10=20m ²	BBCH 39	n/a	1	230
AF/24/BC/29/Pr/02	Przybroda/Poland Sugar beet / Jagiellon F N	Poznań University of Life Sciences, Research and Education Center Złotniki, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 2,0x10=20m2	BBCH 49	n/a	1	200
AF/24/BC/29/Z1/03	Złotniki /Poland Sugar beet / Klara F N	Poznań University of Life Sciences, Research and Education Center Złotniki, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP PP 1/1(4) 2,0x10=20m2	BBCH 39	n/a	1	200

Notes:

- (1): test report number including the year of establishing the trial
- (2): precise place of the trial followed by the country
- (3): F= field trial, G=protected crop, specify
- (4): N=Natural infestation, A= Artificial inoculation
- (5): Trial responsible entity/ officially recognized organization
- (6): Test guideline used
- (7): Sample size per plot
- (8): Crop growth stage at application timing

Appendix 4 Summary of data on effectiveness trials per use

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m ²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [L/ha]	name	dose [L /ha]	
A.T.2021.105.RZO	winter oilseed rape / Aganos LEPTMA VERTLO	Stem	LEPTMA MIXED 100; PRINFC 100 VERTLO PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 20.09.2021 25.03.2022 Assessment date: 20.09.2021 27.09.2021 07.10.2021 09.11.2021 25.03.2022 06.04.2022 19.04.2022 06.07.2022 15.07.2022 02.08.2022
A.T.2021.106.RZO	winter oilseed rape / Dominator LEPTMA VERTLO	Leaf, Stem	LEPTMA PRINFC 100 VERTLO PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 04.10.2021 19.04.2022 Assessment date: 04.10.2021 15.10.2021 28.09.2021 08.11.2021 19.04.2022 30.04.2022 05.05.2022 13.07.2022 19.07.2022 02.08.2022
A.T.2021.107.RZO	Winter oilseed rape/ Temptation LEPTMA ALTEBA VERTLO	Leaf, Stem, pod	LEPTMA PRINFC; 100 ALTEBA PRINFC 100 VERTLO PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 21.09.2021 12.04.2022 Assessment date: 21.09.2021 04.10.2021 15.10.2021 12.04.2022 26.04.2022 10.05.2022 07.07.2022 28.07.2022
A.T.2021.108.RZO	Winter oilseed rape/ Riccardo LEPTMA VERTLO	Stem, Leaf	LEPTMA MIXED; 100; PRINFC 100 VERTLO PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 19.10.2021 22.04.2022 Assessment date: 19.10.2021 26.10.2021 09.11.2021 22.04.2022 06.05.2022 17.05.2022 15.07.2022 28.07.2022 10.08.2022
A.T/2022/007/RZO	Winter oilseed rape/ Drone LEPTMA ALTEBA VERTLO	Leaf, Stem, pod	LEPTMA PRINFC 100 ALTEBA PRINFC 100 VERTLO PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 13.10.2022 12.04.2023 Assessment date: 13.10.2022 21.10.2022 09.11.2022 12.04.2023

				4. CHR/F/SCORPIO 325 SC				21.04.2023 28.04.2023 07.07.2023 25.07.2023 31.10.2023
A.T/2022/008/RZO	Winter oilseed rape/ Atora ALTEBA	Leaf, pod	ALTEBA PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 19.10.2022 14.04.2023 Assessment date: 19.10.2022 26.10.2022 16.11.2022 14.04.2023 26.04.2023 08.05.2023 10.07.2023 17.07.2023 31.07.2023 09.08.2023
A.T/2022/009/RZO	Winter oilseed rape/ Batis ALTEBA LEPTMA VERTLO	Stem leaf	ALTEBA PRINFC; 100 LEPTMA PRINFC; 100 VERTLO PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 17.10.2022 21.04.2023 Assessment date: 17.10.2022 28.10.2022 10.11.2022 21.04.2023 28.04.2023 12.05.2023 14.07.2023 04.08.2023 28.08.2023
A.T/2022/010/RZO	Winter oilseed rape/ LG Auckland ALTEBA LEPTMA VERTLO	Leaf, Stem	ALTEBA PRINFC; 100 LEPTMA PRINFC; 100 VERTLO PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 04.10.2022 08.04.2023 Assessment date: 04.10.2022 17.10.2022 31.10.2022 08.04.2023 17.04.2023 05.05.2023 12.07.2023 10.08.2023 23.08.2023
AF/22/RO/33/G/01	Winter oilseed rape / Kadore LEPTMA	Leaf, stem	LEPTMA MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 15.10.2022 08.04.2023 Assessment date: 22.10.2022 29.10.2022 28.11.2022 09.04.2023 17.04.2023 24.04.2023 08.05.2023 22.05.2023 03.07.2023 04.08.2023
AF/22/RO/33/Pr/02	Winter oilseed rape / Alibaba LEPTMA	Leaf	LEPTMA MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 08.11.2022 11.04.2023 Assessment date: 15.11.2022 22.11.2022 15.12.2022 11.04.2023 18.04.2023 25.04.2023 09.05.2023 23.05.2023 30.06.2023

								17.07.2023 20.07.2023
AF/22/RO/33/Br/03	winter oilseed rape/ Harry LEPTMA ALTEBA	Leaf	LEPTMA MIXED; 100 ALTEBA MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 15.11.2022 21.04.2023 Assessment date: 22.11.2022 29.11.2022 15.12.2022 21.04.2023 28.04.2023 05.05.2023 19.05.2023 03.07.2023 18.07.2023 21.07.2023
AF/22/RO/33/Ma/04	winter oilseed rape / Graf LEPTMA	Leaf	LEPTMA MIXED 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 09.11.2022 12.04.2023 Assessment date: 16.11.2022 23.11.2022 15.12.2022 12.04.2023 19.04.2023 26.04.2023 10.05.2023 23.05.2023 30.06.2023 17.07.2023 20.07.2023
AF/22/RO/33/Pr/01	winter oilseed rape / Harry ALTEBA LEPTMA	Leaf	LEPTMA MIXED 100 ALTEBA MIXED 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 05.10.2022 11.04.2023 Assessment date: 12.10.2022 19.10.2022 15.12.2022 11.04.2023 18.04.2023 22.04.2023 09.05.2023 23.05.2023 30.06.2023 20.07.2023 21.07.2023
AF/22/RO/33/ZI/02	winter oilseed rape / Bradley ALTEBA LEPTMA	Leaf	ALTEBA MIXED 100 LEPTMA MIXED 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 26.10.2022 11.04.2023 Assessment date: 02.11.2022 09.11.2022 15.12.2022 11.04.2023 18.04.2023 25.04.2023 09.05.2023 23.05.2023 30.06.2023 21.07.2023
AF/22/RO/33/Go/03	winter oilseed rape / Chopin ALTEBA	Leaf, Pod	ALTEBA MIXED	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 11.10.2022 09.04.2023 Assessment date: 18.10.2022 18.10.2022 15.12.2022 08.04.2023 17.04.2023 24.04.2023

				325 SC				08.05.2023 22.05.2023 04.07.2023 25.07.2023
AF/22/RO/33/Mai/04	winter oilseed rape / Archipel ALTEBA	Leaf	ALTEBA MIXED 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 SC	0.7 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 17.11.2022 10.04.2023 Assessment date: 24.11.2022 01.12.2022 15.12.2022 10.04.2023 17.04.2023 24.04.2023 08.05.2023 22.05.2023 03.07.2023 19.07.2023
A.T/2021/077/RZO	winter oilseed rape / LG Aviron SCLESC ALTEBA BOTRCI	leaf Stem, Pod	SCLESC PRINFC 100 ALTEBA PRINFC; 100 BOTRCI PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 15.05.2021 Assessment date: 15.05.2021 22.05.2021 10.06.2021 06.07.2021 19.07.2021 22.07.2021 17.08.2021
A.T/2021/078/RZO	winter oilseed rape / Atora SCLESC ALTEBA BOTRCI	Leaf, Stem, Pod	ALTEBA PRINFC 100 SCLESC PRINFC 100 BOTRCI PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 15.05.2021 Assessment date: 15.05.2021 24.05.2021 07.06.2021 14.06.2021 08.07.2021 30.07.2021 21.09.2021
	winter oilseed rape / ALTEBA	Plant, Leaf, Stem, Pod, Root	ALTEBA PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: Assessment date:
A.T.2023.001.RZO	winter oilseed rape / SCLESC VERTLO BOTRCI ALTEBA	leaf Stem, Pod	SCLESC PRINFC 100 ALTEBA PRINFC 100 BOTRCI PRINFC 100 VERTLO PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 25.08.2022 Assessment date: 01.05.2023 11.05.2023 25.05.2023 07.07.2023 25.07.2023 01.09.2023
A.T.2023.002.RZO	winter oilseed rape / Atora BOTRCI	Leaf, Pod	BOTRCI PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 17.05.2023 Assessment date: 17.05.2023 26.05.2023 10.06.2023 10.07.2023 02.08.2023 29.08.2023

A.T.2023.003.RZO	winter oilseed rape / ALTEBA SCLESC VERTLO	Stem, Leaf, Pod	ALTEBA PRINFC 100 SCLESC PRINFC 100 VERTLO PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 18.05.2023 Assessment date: 18.05.2023 29.05.2023 06.06.2023 14.07.2023 02.08.2023 30.08.2023
A.T.2023.004.RZO	winter oilseed rape / Riccardo SCLESC VERTLO	Leaf, Stem	SCLESC PRINFC 100 VERTLO PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 12.05.2023 Assessment date: 12.05.2023 22.05.2023 02.06.2023 14.07.2023 07.08.2023 24.08.2023
A.T.2023.005.RZO	winter oilseed rape / Kuga SCLESC VERTLO	Leaf, Stem	SCLESC PRINFC 100 VERTLO PRINFC 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 12.05.2023 Assessment date: 12.05.2023 19.05.2023 31.05.2023 06.07.2023 03.08.2023 29.08.2023
AF/23/RO/9/Pr/01	winter oilseed rape / Harry SCLESC	STETOT, Pod	SCLESC MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 11.05.2023 Assessment date: 18.05.2023 25.05.2023 05.06.2023 23.06.2023 06.07.2023 17.07.2023 21.07.2023
AF/23/RO/9/JW/02	winter oilseed rape / Berni SCLESC	STETOT, Pod	SCLESC MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0 1.0	Application date: 10.05.2023 Assessment date: 17.05.2023 24.05.2023 06.06.2023 26.06.2023 07.07.2023 20.07.2023 21.07.2023
AF/23/RO/9/Br/03	winter oilseed rape / Harry SCLESC ALTEBA	STETOT, Pod	SCLESC MIXED; 100 ALTEBA MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0 1.0	Application date: 11.05.2023 Assessment date: 18.05.2023 25.05.2023 05.06.2023 23.06.2023 06.07.2023 18.07.2023 21.07.2023

AF/23/RO/9/Ma/04	winter oilseed rape / Graf BOTRCI	STETOT, Pod	BOTRCI MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0 1.0	Application date: 26.05.2023 Assessment date: 02.06.2023 09.06.2023 23.06.2023 06.07.2023 17.07.2023
AF/23/RO/9/Zl/05	winter oilseed rape / Bradley BOTRCI ALTEBA	STETOT, Pod	ALTEBA MIXED; 100 BOTRCI MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0 1.0	Application date: 10.05.2023 Assessment date: 17.05.2023 24.05.2023 06.06.2023 26.06.2023 07.07.2023 20.07.2023 21.07.2023
AF/23/RO/9/Go/06	winter oilseed rape / SY Ilona SCLESC	Stem	SCLESC PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0 1.0	Application date: 22.05.2023 Assessment date: 29.05.2023 05.06.2023 19.06.2023 10.07.2023 04.08.2023
AF/23/RO/9/Pr/07	winter oilseed rape / Harry BOTRCI ALTEBA	STETOT, Pod	BOTRCI MIXED; 100 ALTEBA MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.8 0.9 1.0	Amistar Gold Max	1.0 1.0	Application date: 25.05.2023 Assessment date: 01.06.2023 08.06.2023 15.06.2023 26.06.2023 07.07.2023 20.07.2023 21.07.2023
A.T/2021/079/BC	Sugar beet / Graciana CERCBE RAMUBE	Leaf	CERCBE MIXED; 100 RAMUBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 S.C.	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 30.07.2021 Assessment date: 30.07.2021 06.08.2021 19.08.2021 06.09.2021 07.10.2021 21.10.2021
A.T/2021/080/BC	Sugar beet / Kujavia CERCBE	Leaf	CERCBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 S.C.	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 03.08.2021 Assessment date: 03.08.2021 10.08.2021 23.08.2021 10.09.2021 08.10.2021 11.10.2021 21.10.2021

A.T/2023/006/BC	Sugar beet / BTS 8840 CERCBE RAMUBE	Leaf	CERCBE MIXED; 100 RAMUBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 S.C.	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 29.06.2023 Assessment date: 29.06.2023 06.07.2023 19.07.2023 31.07.2023 14.09.2023 25.09.2023 15.11.2023
A.T/2023/007/BC	Sugar beet / Mazovia Rh + CR CERCBE RAMUBE	Leaf	CERCBE MIXED; 100 RAMUBE PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 S.C.	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 02.08.2023 Assessment date: 02.08.2023 09.08.2023 21.08.2023 07.09.2023 19.10.2023 15.11.2023
A.T/2023/008/BC	Sugar beet /Kujavia CERCBE RAMUBE ERYSBE	Leaf	CERCBE MIXED; 100 RAMUBE PRINFC; 100 ERYSBE PRINFC; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 S.C.	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 27.06.2023 Assessment date: 27.06.2023 04.07.2023 17.07.2023 09.08.2023 19.10.2023 08.11.2023 15.11.2023
A.T/2023/009/BC	Sugar beet / Viola KWS CERCBE RAMUBE	Leaf	CERCBE MIXED; 100 RAMUBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C. 4. CHR/F/SCORPIO 325 S.C.	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 06.07.2023 Assessment date: 06.07.2023 20.07.2023 09.08.2023 10.10.2023 17.10.2023 15.11.2023
A.T/2023/010/BC	Sugar beet / Zagloba CERCBE	Leaf	CERCBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C.	0.6 0.8 0.9	Amistar Gold Max	1.0	Application date: 31.07.2023 Assessment date: 31.07.2023 07.08.2023 18.08.2023 08.09.2023 16.10.2023

				4. CHR/F/SCORPIO 325 S.C	1.0			15.11.2023
AF/23/BC/9/JW/1	Sugar beet / Jagiellon CERCBE ERYSBE	Leaf	CERCBE MIXED; 100 ERYSBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 26.07.2023 Assessment date: 02.08.2023 09.08.2023 23.08.2023 13.09.2023 30.11.2023
AF/23/BC/9/ZI/2	Sugar beet / Klara CERCBE ERYSBE	Leaf	CERCBE MIXED; 100 ERYSBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 10.08.2023 Assessment date: 17.08.2023 24.08.2023 08.09.2023 28.09.2023 23.10.2023 30.11.2023
AF/23/BC/9/Or/3	Sugar beet / Jagiellon CERCBE	PLANT; C	CERCBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 24.08.2023 Assessment date: 31.08.2023 15.09.2023 06.10.2023 25.10.2023 30.11.2023
AF/23/BC/9/Br/4	Sugar beet /Jagiellon CERCBE ERYSBE	Leaf	CERCBE MIXED; 100 ERYSBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 22.08.2023 Assessment date: 29.08.2023 05.09.2023 19.09.2023 03.10.2023 24.10.2023 30.11.2023
AF/23/BC/9/Pr/5	Sugar beet / Kujavia ERYSBE RAMUBE	Leaf	ERYSBE MIXED; 100 RAMUBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9	Amistar Gold Max	1.0	Application date: 14.07.2023 Assessment date: 21.07.2023 28.07.2023 15.08.2023 08.09.2023 02.10.2023

				4. CHR/F/SCORPIO 325 S.C	1.0			30.11.2023
AF/23/BC/9/Wyr/6	Sugar beet / SV2423 RAMUBE	PLANT; C	RAMUBE PRINFC; 96; MIXED; 4	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 21.08.2023 Assessment date: 28.08.2023 11.09.2023 02.10.2023 31.10.2023 30.11.2023
AF/23/BC/9/ZL/7	Sugar beet / Jantar RAMUBE	Leaf	RAMUBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 21.08.2023 Assessment date: 28.08.2023 04.09.2023 19.09.2023 03.10.2023 24.10.2023 30.11.2023
AF/23/BC/9/Ma/8	Sugar beet / Tradycja RAMUBE ERYSBE	Leaf	RAMUBE MIXED; 100 ERYSBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 03.08.2023 Assessment date: 10.08.2023 17.08.2023 31.08.2023 15.09.2023 02.10.2023 30.11.2023
AF/24/BC/29/Br/01	Sugar beet / Pulitzer ERYSBE	Leaf	ERYSBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 04.07.2024 Assessment date: 04.07.2024 23.07.2024 13.08.2024 17.10.2024 14.11.2024
AF/24/BC/29/Pr/02	Sugar beet / Jagiellon ERYSBE	Leaf	ERYSBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9	Amistar Gold Max	1.0	Application date: 09.08.2024 Assessment date: 09.08.2024 26.08.2024 18.09.2024 05.11.2024

				4. CHR/F/SCORPIO 325 S.C	1.0			25.11.2024
AF/24/BC/29/ZI/03	Sugar beet / Klara ERYSBE	Leaf	ERYSBE MIXED; 100	1. CHR/F/SCORPIO 325 S.C. 2. CHR/F/SCORPIO 325 S.C. 3. CHR/F/SCORPIO 325 S.C 4. CHR/F/SCORPIO 325 S.C	0.6 0.8 0.9 1.0	Amistar Gold Max	1.0	Application date: 03.07.2024 Assessment date 03.07.2024 23.07.2024 12.08.2024 17.10.2024 14.11.2024

Notes:

- 1): Test report number including the year of establishing the trial
- (2): Plant part assessed and criteria for assessment
- (3): efficacy or intended effect
- (4): Relevant conclusions on effectiveness

Appendix 5 Summary of detailed data on fungicide effectiveness trials

Table 1. The efficacy of CHR/F/SCORPIO in control of *Plenodomus lingam*/Phoma lingam in winter oilseed rape (stem).

Pest code	Report code	DA-A	date	PESSEV %	part assessed	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
						Rate (l/ha)		0,70	0,80	0,90	1,00		
LEPTMA (Plenodomus lingam)	A.T.2021.105.RZO	103 DA-B	06.07.2022	30,20	stem P		0,0		60,1	73,9	82,6	70,9	9,63
	A.T.2021.106.RZO	85 DA-B	13.07.2022	12,90	stem P		0,0		61,7	67,9	80,9	74,9	7,55
	A.T.2021.108.RZO	84 DA-B	15.07.2022	10,70	stem P		0,0		70,5	75,2	78,4	66,2	2,17
	A.T/2022/007/RZO	86 DA-B	07.07.2023	19,70	stem P		0,0	55,2	71,8	78,2	82,7	78,2	3,20
	A.T/2022/009/RZO	84 DA-B	14.07.2023	30,60	stem P		0,0	51,4	55,2	61,8	62,7	64,5	6,29
	A.T/2022/010/RZO	95 DA-B	12.07.2023	17,60	stem P		0,0	56,0	70,0	77,3	82,2	76,4	3,88
	AF/22/RO/33/G/01	261 DA-A; 86 DA-B	03.07.2023	24,50	stem		0,0	49,2	67,6	74,2	74,5	63,3	15,28
	Min.			10,70			0,00	49,20	55,20	61,80	62,70	63,30	
	Max.			30,60			0,00	56,00	71,80	78,20	82,70	78,20	
	Average			20,89			0,00	52,95	65,27	72,64	77,71	70,63	

Table 2. The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam in winter oilseed rape (leaf) all assessment.

Pest code	Report code	DA-A	date	PESSEV %	part assessed	No. Name Rate (l/ha)	1 Untreated Check	2 CHR/F/SCORPIO 325 S.C.	2 CHR/F/SCORPIO 325 S.C.	3 CHR/F/SCORPIO 325 S.C.	4 CHR/F/SCORPIO 325 S.C.	5 Amistar Gold Max	LSD (P=.05)
								0,70	0,80	0,90	1,00	1,00	
LEPTMA (Plenodomu s lingam)	A.T/2022/007/RZO	27 DA-A	09.11.2022	6,40	leaf		0,0	74,9	80,2	84,4	84,3	86,7	6,26
	A.T/2022/009/RZO	24 DA-A	10.11.2022	6,60	leaf		0,0	73,7	84,0	87,7	87,0	85,4	8,04
	A.T/2022/010/RZO	27 DA-A	31.10.2022	6,10	leaf		0,0	81,9	89,8	86,7	90,4	86,8	5,73
	AF/22/RO/33/Pr/02	14 DA-A	22.11.2022	10,90	leaf		0,0	72,0	77,1	82,3	82,9	78,3	9,36
	AF/22/RO/33/Pr/02	37 DA-A	15.12.2022	12,80	leaf		0,0	77,6	85,4	87,8	90,7	87,8	4,65
	AF/22/RO/33/Pr/02	154 DA-A	11.04.2023	15,60	leaf		0,0	84,0	88,0	90,4	94,4	92,8	4,60
	AF/22/RO/33/Pr/02	168 DA-A; 14 DA-B	25.04.2023	18,40	leaf		0,0	83,1	87,8	91,9	96,6	95,3	4,15
	AF/22/RO/33/Pr/02	182 DA-A; 28 DA-B	09.05.2023	21,60	leaf		0,0	83,8	89,6	93,3	97,7	97,1	3,48
	AF/22/RO/33/Pr/02	196 DA-A; 42 DA-B	23.05.2023	23,40	leaf		0,0	85,1	89,9	93,6	98,4	96,8	2,80
	AF/22/RO/33/Pr/02	234 DA-A; 80 DA-B	30.06.2023	29,70	leaf		0,0	87,6	92,8	95,6	98,5	98,1	5,51
	AF/22/RO/33/Br/03	14 DA-A	29.11.2022	10,00	leaf		0,0	66,9	77,5	84,4	86,9	89,4	7,19
	AF/22/RO/33/Br/03	30 DA-A	15.12.2022	13,10	leaf		0,0	71,9	85,2	87,6	93,8	93,3	4,08
	AF/22/RO/33/Br/03	157 DA-A	21.04.2023	18,10	leaf		0,0	76,6	88,6	93,8	96,9	95,2	2,94
	AF/22/RO/33/Br/03	171 DA-A; 14 DA-B	05.05.2023	21,30	leaf		0,0	80,9	90,6	94,7	97,4	96,2	2,41
	AF/22/RO/33/Br/03	185 DA-A; 28 DA-B	19.05.2023	22,50	leaf		0,0	83,1	91,4	94,2	98,1	96,7	4,37
	AF/22/RO/33/Br/03	230 DA-A; 73 DA-B	03.07.2023	26,30	leaf		0,0	87,4	93,6	95,5	98,1	97,9	3,31
	AF/22/RO/33/Ma/04	14 DA-A	23.11.2022	8,40	leaf		0,0	71,1	75,6	80,7	83,0	83,0	9,64
	AF/22/RO/33/Ma/04	36 DA-A	15.12.2022	10,00	leaf		0,0	76,9	83,1	88,8	90,6	88,8	4,91
	AF/22/RO/33/Ma/04	154 DA-A	12.04.2023	12,20	leaf		0,0	82,6	86,7	92,3	94,4	92,3	3,84
	AF/22/RO/33/Ma/04	168 DA-A; 14 DA-B	26.04.2023	14,70	leaf		0,0	87,7	90,6	95,3	96,6	95,3	3,05
	AF/22/RO/33/Ma/04	182 DA-A; 28 DA-B	10.05.2023	16,60	leaf		0,0	86,8	93,2	95,5	97,7	96,2	4,02
	AF/22/RO/33/Ma/04	195 DA-A; 41 DA-B	23.05.2023	19,10	leaf		0,0	89,2	93,4	95,4	98,4	96,4	4,14
	AF/22/RO/33/Ma/04	233 DA-A; 79	30.06.2023	19,70	leaf		0,0	90,2	93,3	94,9	98,1	96,8	2,87

4	DA-B												
AF/22/RO/33/Pr/01	71 DA-A	15.12.2022	6,90	leaf		0,0	81,8	84,5	90,9	94,5	90,0	7,56	
AF/22/RO/33/Pr/01	188 DA-A	11.04.2023	8,80	leaf		0,0	77,1	85,7	89,3	95,0	86,4	7,70	
AF/22/RO/33/Pr/01	202 DA-A; 14 DA-B	25.04.2023	11,30	leaf		0,0	79,4	92,8	91,1	92,8	95,6	10,05	
AF/22/RO/33/Pr/01	216 DA-A; 28 DA-B	09.05.2023	12,20	leaf		0,0	80,5	89,7	91,8	95,9	89,2	7,06	
AF/22/RO/33/Pr/01	230 DA-A; 42 DA-B	23.05.2023	13,10	leaf		0,0	78,1	87,1	91,0	95,7	91,9	5,82	
AF/22/RO/33/Pr/01	268 DA-A; 80 DA-B	30.06.2023	13,80	leaf		0,0	79,5	87,7	93,6	95,9	94,5	6,66	
AF/22/RO/33/Zl/02	167 DA-A	11.04.2023	5,90	leaf		0,0	71,6	86,3	88,4	90,5	90,5	9,95	
AF/22/RO/33/Zl/02	181 DA-A; 14 DA-B	25.04.2023	8,10	leaf		0,0	77,7	84,6	87,7	92,3	86,9	6,13	
AF/22/RO/33/Zl/02	195 DA-A; 28 DA-B	09.05.2023	9,70	leaf		0,0	72,9	83,9	91,0	94,8	89,7	7,70	
AF/22/RO/33/Zl/02	209 DA-A; 42 DA-B	23.05.2023	10,90	leaf		0,0	77,1	85,7	92,6	93,1	89,1	6,88	
AF/22/RO/33/Zl/02	247 DA-A; 80 DA-B	30.06.2023	12,20	leaf		0,0	79,0	89,7	91,8	94,9	92,3	7,10	
AF/22/RO/33/G/01	44 DA-A	28.11.2022	5,38	leaf		0,0	50,7	71,2	78,6	81,8	75,5	4,85	
AF/22/RO/33/G/01	191 DA-A; 16 DA-B	24.04.2023	7,14	leaf		0,0	57,1	74,6	82,1	82,7	78,8	3,70	
AF/22/RO/33/G/01	205 DA-A; 30 DA-B	08.05.2023	9,74	leaf		0,0	61,7	76,6	82,9	85,2	79,9	2,62	
AF/22/RO/33/G/01	219 DA-A; 44 DA-B	22.05.2023	13,00	leaf		0,0	67,2	80,0	83,7	86,9	81,9	2,06	
Min.			5,38			0,00	50,70	71,20	78,60	81,80	75,50		
Max.			29,70			0,00	90,20	93,60	95,60	98,50	98,10		
Average			13,46			0,00	77,54	85,99	89,82	92,71	90,39		

Table 2a. The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam in winter oilseed rape (leaf) 14-30 DA-A

Pest code		LEPTMA (Plenodomus lingam)									
Report code		A.T/2022/007/RZO	A.T/2022/009/RZO	A.T/2022/010/RZO	AF/22/RO/33/Pr02	AF/22/RO/33/Br03	AF/22/RO/33/Br03	AF/22/RO/33/Ma04	Min.	Max.	Average
DA-A		27 DA-A	24 DA-A	27 DA-A	14 DA-A	14 DA-A	30 DA-A	14 DA-A	█	█	█
date		09.11.2022	10.11.2022	31.10.2022	22.11.2022	29.11.2022	15.12.2022	23.11.2022	█	█	█
PESSEV %		6,40	6,60	6,10	10,90	10,00	13,10	8,40	6,10	13,10	8,79
part assessed		leaf	leaf	leaf	leaf	leaf	leaf	leaf	█	█	█
Name	Rate (l/ha)	█	█	█	█	█	█	█	█	█	█
Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
CHR/F/SCORPIO 325 S.C	0,70	74,9	73,7	81,9	72,0	66,9	71,9	71,1	66,90	81,90	73,20
CHR/F/SCORPIO 325 S.C	0,80	80,2	84,0	89,8	77,1	77,5	85,2	75,6	75,60	89,80	81,34
CHR/F/SCORPIO 325 S.C	0,90	84,4	87,7	86,7	82,3	84,4	87,6	80,7	80,70	87,70	84,83
CHR/F/SCORPIO 325 S.C	1,00	84,3	87,0	90,4	82,9	86,9	93,8	83,0	82,90	93,80	86,90
Amistar Gold Max	1,00	86,7	85,4	86,8	78,3	89,4	93,3	83,0	78,30	93,30	86,13
LSD (P=.05)		6,26	8,04	5,73	9,36	7,19	4,08	9,64			

Table 2b. The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam in winter oilseed rape (leaf) 36-71 DA-A

Pest code			LEPTMA (Plenodomus lingam)						
Report code			AF/22/RO/33/Pr02	AF/22/RO/33/Ma04	AF/22/RO/33/Pr01	AF/22/RO/33/G01	Min.	Max.	Average
DA-A			37 DA-A	36 DA-A	71 DA-A	44 DA-A			
date			15.12.2022	15.12.2022	15.12.2022	28.11.2022			
PESSEV %			12,80	10,00	6,90	5,38	5,38	12,80	8,77
part assessed			leaf	leaf	leaf	leaf			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C	0,70	77,6	76,9	81,8	50,7	50,70	81,80	71,75
3	CHR/F/SCORPIO 325 S.C	0,80	85,4	83,1	84,5	71,2	71,20	85,40	81,05
4	CHR/F/SCORPIO 325 S.C	0,90	87,8	88,8	90,9	78,6	78,60	90,90	86,53
5	CHR/F/SCORPIO 325 S.C	1,00	90,7	90,6	94,5	81,8	81,80	94,50	89,40
6	Amistar Gold Max	1,00	87,8	88,8	90,0	75,5	75,50	90,00	85,53
	LSD (P=.05)		4,65	4,91	7,56	4,85			

Table 2c. The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam in winter oilseed rape (leaf) 154-188 DA-A.

Pest code			LEPTMA (Plenodomus lingam)							
Report code			AF/22/RO/33/Pr/02	AF/22/RO/33/Br/03	AF/22/RO/33/Ma/04	AF/22/RO/33/Pr/01	AF/22/RO/33/Zl/02	Min.	Max.	Average
DA-A			154 DA-A	157 DA-A	154 DA-A	188 DA-A	167 DA-A			
date			11.04.2023	21.04.2023	12.04.2023	11.04.2023	11.04.2023			
PESSEV %			15,60	18,10	12,20	8,80	5,90	5,90	18,10	12,12
part assessed			leaf	leaf	leaf	leaf	leaf			
No.	Name	Rate (l/ha)								
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C.	0,70	84,0	76,6	82,6	77,1	71,6	71,60	84,00	78,38
3	CHR/F/SCORPIO 325 S.C.	0,80	88,0	88,6	86,7	85,7	86,3	85,70	88,60	87,06
4	CHR/F/SCORPIO 325 S.C.	0,90	90,4	93,8	92,3	89,3	88,4	88,40	93,80	90,84
5	CHR/F/SCORPIO 325 S.C.	1,00	94,4	96,9	94,4	95,0	90,5	90,50	96,90	94,24
6	Amistar Gold Max	1,00	92,8	95,2	92,3	86,4	90,5	86,40	95,20	91,44
	LSD (P=,05)		4,60	2,94	3,84	7,70	9,95			

Table 2d. The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam in winter oilseed rape (leaf) 14-30 DA-B.

	Pest code		LEPTMA (Plenodomus lingam)															
	Report code		AF/22/RO/33/P r/02	AF/22/RO/33/P r/02	AF/22/RO/33/B r/03	AF/22/RO/33/B r/03	AF/22/RO/33/M a/04	AF/22/RO/33/M a/04	AF/22/RO/33/P r/01	AF/22/RO/33/Pr 01	AF/22/RO/33/Z l/02	AF/22/RO/33/Z l/02	AF/22/RO/33/G l/01	AF/22/RO/33/G l/01	Min	Max	Average	
	DA-A		168 DA-A; 14 DA-B	182 DA-A; 28 DA-B	171 DA-A; 14 DA-B	185 DA-A; 28 DA-B	168 DA-A; 14 DA-B	182 DA-A; 28 DA-B	202 DA-A; 14 DA-B	216 DA-A; 28 DA-B	181 DA-A; 14 DA-B	195 DA-A; 28 DA-B	191 DA-A; 16 DA-B	205 DA-A; 30 DA-B				
	date		25.04.2023	09.05.2023	05.05.2023	19.05.2023	26.04.2023	10.05.2023	25.04.2023	09.05.2023	25.04.2023	09.05.2023	24.04.2023	08.05.2023				
	PESSEV %		18.40	21.60	21.30	22.50	14.70	16.60	11.30	12.20	8.10	9.70	7.14	9.74	7.14	22.50	14.44	
	part assessed		leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf				
N o.	Name	Ratio (0/100)																
1	Untreated Check		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
2	CHR/F/SCORPIO 325 S.C.	0.70	83.1	83.8	80.9	83.1	87.7	86.8	79.4	80.5	77.7	72.9	57.1	61.7	57.1	87.7	77.89	
3	CHR/F/SCORPIO 325 S.C.	0.80	87.8	89.6	90.6	91.4	90.6	93.2	92.8	89.7	84.6	83.9	74.6	76.6	74.6	93.2	87.12	
4	CHR/F/SCORPIO 325 S.C.	0.90	91.9	93.3	94.7	94.2	95.3	95.5	91.1	91.8	87.7	91.0	82.1	82.9	82.1	95.5	90.96	
5	CHR/F/SCORPIO 325 S.C.	1.00	96.6	97.7	97.4	98.1	96.6	97.7	92.8	95.9	92.3	94.8	82.7	85.2	82.7	98.1	93.98	
6	Amistar Gold Max	1.00	95.3	97.1	96.2	96.7	95.3	96.2	95.6	89.2	86.9	89.7	78.8	79.9	78.8	97.1	91.41	
7	LSD (P=.05)		4.15	3.48	2.41	4.37	3.05	4.02	10.05	7.06	6.13	7.70	3.70	2.62				

Table 2e. The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam in winter oilseed rape (leaf) 41-44 DA-B.

Pest code			LEPTMA (Plenodomus lingam)							
Report code			AF/22/RO/33/Pr/02	AF/22/RO/33/Ma/04	AF/22/RO/33/Pr/01	AF/22/RO/33/ZI/02	AF/22/RO/33/G/01	Min.	Max.	Average
DA-A			196 DA-A; 42 DA-B	195 DA-A; 41 DA-B	230 DA-A; 42 DA-B	209 DA-A; 42 DA-B	219 DA-A; 44 DA-B			
date			23.05.2023	23.05.2023	23.05.2023	23.05.2023	22.05.2023			
PESSEV %			23,40	19,10	13,10	10,90	13,00	10,90	23,40	15,90
part assessed			leaf	leaf	leaf	leaf	leaf			
No.	Name	Rate (l/ha)								
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C	0,70	85,1	89,2	78,1	77,1	67,2	67,20	89,20	79,34
3	CHR/F/SCORPIO 325 S.C	0,80	89,9	93,4	87,1	85,7	80,0	80,00	93,40	87,22
4	CHR/F/SCORPIO 325 S.C	0,90	93,6	95,4	91,0	92,6	83,7	83,70	95,40	91,26
5	CHR/F/SCORPIO 325 S.C	1,00	98,4	98,4	95,7	93,1	86,9	86,90	98,40	94,50
6	Amistar Gold Max	1,00	96,8	96,4	91,9	89,1	81,9	81,90	96,80	91,22
	LSD (P=.05)		2,80	4,14	5,82	6,88	2,06			

Table 2f. The efficacy of CHR/F/SCORPIO in control of Plenodomus lingam/Phoma lingam in winter oilseed rape (leaf) 73-80 DA-B.

Pest code		LEPTMA (Plenodomus lingam)							
Report code		AF/22/RO/33/Pr/02	AF/22/RO/33/Br/03	AF/22/RO/33/Ma/04	AF/22/RO/33/Pr/01	AF/22/RO/33/ZI/02	Min.	Max.	Average
DA-A		234 DA-A; 80 DA-B	230 DA-A; 73 DA-B	233 DA-A; 79 DA-B	268 DA-A; 80 DA-B	247 DA-A; 80 DA-B			
date		30.06.2023	03.07.2023	30.06.2023	30.06.2023	30.06.2023			
PESSEV %		29,70	26,30	19,70	13,80	12,20	12,20	29,70	20,34
part assessed		leaf	leaf	leaf	leaf	leaf			
Name	Rate (l/ha)								
Untreated Check		0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
CHR/F/SCORPIO 325 S.C.	0,70	87,6	87,4	90,2	79,5	79,0	79,00	90,20	84,74
CHR/F/SCORPIO 325 S.C.	0,80	92,8	93,6	93,3	87,7	89,7	87,70	93,60	91,42
CHR/F/SCORPIO 325 S.C.	0,90	95,6	95,5	94,9	93,6	91,8	91,80	95,60	94,28
CHR/F/SCORPIO 325 S.C.	1,00	98,5	98,1	98,1	95,9	94,9	94,90	98,50	97,10
Amistar Gold Max	1,00	98,1	97,9	96,8	94,5	92,3	92,30	98,10	95,92
LSD (P=.05)		5,51	3,31	2,87	6,66	7,10			

Table 3. The efficacy of CHR/F/SCORPIO in control of *Alternaria brassicae* in winter oilseed rape (leaf) all assessment.

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
						Rate (l/ha)		0,70	0,80	0,90	1,00	1,00	
ALTEBA (<i>Alternaria brassicae</i>)	A.T/2022/007/RZO	27 DA-A	09.11.2022	5,3	leaf		0,0	64,0	70,6	83,4	83,9	72,3	10,81
	A.T/2022/008/RZO	28 DA-A	16.11.2022	6,5	leaf		0,0	77,4	88,8	94,1	95,2	89,8	4,94
	A.T/2022/009/RZO	24 DA-A	10.11.2022	5,1	leaf		0,0	71,5	86,4	93,5	100,0	94,6	6,44
	A.T/2022/010/RZO	27 DA-A	31.10.2022	5,1	leaf		0,0	75,0	87,2	97,6	97,8	97,8	4,95
	AF/22/RO/33/Br/03	157 DA-A	21.04.2023	7,5	leaf		0,0	76,7	86,7	89,2	95,0	88,3	7,63
	AF/22/RO/33/Br/03	171 DA-A; 14 DA-B	05.05.2023	9,1	leaf		0,0	77,2	91,0	94,5	93,8	95,2	5,46
	AF/22/RO/33/Br/03	185 DA-A; 28 DA-B	19.05.2023	10,3	leaf		0,0	81,8	92,1	94,5	95,2	95,2	4,78
	AF/22/RO/33/Br/03	230 DA-A; 73 DA-B	03.07.2023	11,9	leaf		0,0	85,3	91,6	96,8	96,8	96,8	5,75
	AF/22/RO/33/Pr/01	71 DA-A	15.12.2022	8,4	leaf		0,0	64,4	72,6	77,8	89,6	82,2	13,69
	AF/22/RO/33/Pr/01	188 DA-A	11.04.2023	18,1	leaf		0,0	75,5	88,3	89,7	94,1	89,0	8,40
	AF/22/RO/33/Pr/01	202 DA-A; 14 DA-B	25.04.2023	21,3	leaf		0,0	84,4	86,5	92,6	96,5	93,2	6,85
	AF/22/RO/33/Pr/01	216 DA-A; 28 DA-B	09.05.2023	24,1	leaf		0,0	81,6	87,3	92,5	95,3	93,0	4,31
	AF/22/RO/33/Pr/01	230 DA-A; 42 DA-B	23.05.2023	25	leaf		0,0	79,5	85,3	91,0	95,0	93,5	4,42
	AF/22/RO/33/Pr/01	268 DA-A; 80 DA-B	30.06.2023	29,4	leaf		0,0	80,9	88,7	92,3	97,4	95,1	5,80
	AF/22/RO/33/Zi/02	50 DA-A	15.12.2022	7,9	leaf		0,0	71,7	84,3	89,8	90,6	87,4	6,92
	AF/22/RO/33/Zi/02	167 DA-A	11.04.2023	11,6	leaf		0,0	71,9	81,1	90,8	91,9	89,7	5,86
	AF/22/RO/33/Zi/02	181 DA-A; 14 DA-B	25.04.2023	15,6	leaf		0,0	75,2	88,8	93,6	96,0	92,8	5,11
	AF/22/RO/33/Zi/02	195 DA-A; 28 DA-B	09.05.2023	17,8	leaf		0,0	75,1	88,4	94,0	96,5	92,6	4,00
	AF/22/RO/33/Zi/02	209 DA-A; 42 DA-B	23.05.2023	20	leaf		0,0	83,4	90,0	93,8	96,9	94,4	6,48
	AF/22/RO/33/Zi/02	247 DA-A; 80 DA-B	30.06.2023	22,2	leaf		0,0	79,7	89,9	93,5	97,5	96,1	4,13

	AF/22/RO/33/Go/03	179 DA-A	08.04.2023	5,4	leaf		0,0	68,5	76,2	83,4	86,9	79,1	3,98
	AF/22/RO/33/Go/03	195 DA-A; 15 DA-B	24.04.2023	9,2	leaf		0,0	68,5	85,1	86,4	85,2	82,4	2,31
	AF/22/RO/33/Go/03	209 DA-A; 29 DA-B	08.05.2023	11,2	leaf		0,0	68,0	82,2	87,6	88,4	84,5	4,12
	AF/22/RO/33/Go/03	223 DA-A; 43 DA-B	22.05.2023	12,4	leaf		0,0	63,7	82,9	89,2	88,4	80,2	3,06
	AF/22/RO/33/Mai/04	28 DA-A	15.12.2022	5,3	leaf		0,0	70,73	81,98	91,52	95,01	95,29	6,992
	AF/22/RO/33/Mai/04	144 DA-A	10.04.2023	6,6	leaf		0,0	64,67	72,17	85,83	91,50	90,50	5,760
	AF/22/RO/33/Mai/04	158 DA-A; 14 DA-B	24.04.2023	13,8	leaf		0,0	64,14	77,78	86,16	92,77	91,38	5,843
	AF/22/RO/33/Mai/04	172 DA-A; 28 DA-B	08.05.2023	25,6	leaf		0,0	62,99	75,14	87,00	91,80	91,45	4,874
	AF/22/RO/33/Mai/04	186 DA-A; 42 DA-B	22.05.2023	38,8	leaf		0,0	61,29	70,88	85,33	93,03	92,96	2,413
	AF/22/RO/33/Mai/04	228 DA-A; 84 DA-B	03.07.2023	41,9	leaf		0,0	61,14	76,76	88,25	99,55	99,39	6,700
	Min.			5,1			0,00	61,14	70,60	77,80	83,90	72,30	
	Max.			41,9			0,00	85,30	92,10	97,60	100,00	99,39	
	Average			15,08			0,00	72,86	83,56	90,19	93,59	90,54	

Table 3a. The efficacy of CHR/F/SCORPIO in control of Alternaria brassicae in winter oilseed rape (leaf)24-28 DA-A.

Pest code			ALTEBA (Alternaria brassicae)							
Report code			A.T/2022/007/RZO	A.T/2022/008/RZO	A.T/2022/009/RZO	A.T/2022/010/RZO	AF/22/RO/33/Mal04	Min.	Max.	Average
DA-A/B			27 DA-A	28 DA-A	24 DA-A	27 DA-A	28 DA-A			
date			09.11.2022	16.11.2022	10.11.2022	31.10.2022	15.12.2022			
% PESSEV			5.3	6.5	5.1	5.1	5.3	5.1	6.5	5.46
part assessed			leaf	leaf	leaf	leaf	leaf			
No.	Name	Rate (l/ha)								
1	Untreated Check		0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
2	CHR/F/SCORPIO 325 S.C	0.70	64.0	77.4	71.5	75.0	70.73	64.00	77.40	71.73
3	CHR/F/SCORPIO 325 S.C	0.80	70.6	88.8	86.4	87.2	81.98	70.60	88.80	83.00
4	CHR/F/SCORPIO 325 S.C	0.90	83.4	94.1	93.5	97.6	91.52	83.40	97.60	92.02
5	CHR/F/SCORPIO 325 S.C	1.00	83.9	95.2	100.0	97.8	95.01	83.90	100.00	94.38
6	Amistar Gold Max	1.00	72.3	89.8	94.6	97.8	95.29	72.30	97.80	89.96
	LSD (P=.05)		10.81	4.94	6.44	4.95	6.992			

Table 3b. The efficacy of CHR/F/SCORPIO in control of Alternaria brassicae in winter oilseed rape (leaf) 50-71 DA-A.

Pest code			ALTEBA (Alternaria brassicae)			
Report code			AF/22/RO/33/Pr01	AF/22/RO/33/ZI02	Min.	Max.
DA-A/B			71 DA-A	50 DA-A		
date			15.12.2022	15.12.2022		
% PESSEV			8,4	7,9	7,9	8,4
part assessed			leaf	leaf		
No.	Name	Rate (l/ha)				
1	Untreated Check		0,0	0,0	0,00	0,00
2	CHR/F/SCORPIO 325 S.C	0,70	64,4	71,7	64,40	71,70
3	CHR/F/SCORPIO 325 S.C	0,80	72,6	84,3	72,60	84,30
4	CHR/F/SCORPIO 325 S.C	0,90	77,8	89,8	77,80	89,80
5	CHR/F/SCORPIO 325 S.C	1,00	89,6	90,6	89,60	90,60
6	Amistar Gold Max	1,00	82,2	87,4	82,20	87,40
	LSD (P=.05)		13,69	6,92		

Table 3c. The efficacy of CHR/F/SCORPIO in control of Alternaria brassicae in winter oilseed rape (leaf) 144-188 DA-A.

Pest code			ALTEBA (Alternaria brassicae)							
Report code			AF/22/RO/33/Br03	AF/22/RO/33/Pr01	AF/22/RO/33/ZI02	AF/22/RO/33/Go03	AF/22/RO/33/Ma04	Min.	Max.	Average
DA-A/B			157 DA-A	188 DA-A	167 DA-A	179 DA-A	144 DA-A			
date			21.04.2023	11.04.2023	11.04.2023	08.04.2023	10.04.2023			
% PESSEV			7,5	18,1	11,6	5,4	6,6	5,4	18,1	9,84
part assessed			leaf	leaf	leaf	leaf	leaf			
No.	Name	Rate (l/ha)								
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C	0,70	76,7	75,5	71,9	68,5	64,67	64,67	76,70	71,45
3	CHR/F/SCORPIO 325 S.C	0,80	86,7	88,3	81,1	76,2	72,17	72,17	88,30	80,89
4	CHR/F/SCORPIO 325 S.C	0,90	89,2	89,7	90,8	83,4	85,83	83,40	90,80	87,79
5	CHR/F/SCORPIO 325 S.C	1,00	95,0	94,1	91,9	86,9	91,50	86,90	95,00	91,88
6	Amistar Gold Max	1,00	88,3	89,0	89,7	79,1	90,50	79,10	90,50	87,32
	LSD (P=.05)		7,63	8,40	5,86	3,98	5,760			

Table 3d. The efficacy of CHR/F/SCORPIO in control of Alternaria brassicae in winter oilseed rape (leaf) 14-29 DA-B.

Pest code			ALTEBA (Alternaria brassicae)												
Report code			AF/22/RO/33/Br/0	AF/22/RO/33/Br/0	AF/22/RO/33/Pr/0	AF/22/RO/33/Pr/01	AF/22/RO/33/ZI/0	AF/22/RO/33/ZI/0	AF/22/RO/33/Go/0	AF/22/RO/33/Go/0	AF/22/RO/33/Mal/0	AF/22/RO/33/Mal/0	Min	Max	Average
DA-A/B			171 DA-A; 14 DA-B	185 DA-A; 28 DA-B	202 DA-A; 14 DA-B	216 DA-A; 28 DA-B	181 DA-A; 14 DA-B	195 DA-A; 28 DA-B	195 DA-A; 15 DA-B	209 DA-A; 29 DA-B	158 DA-A; 14 DA-B	172 DA-A; 28 DA-B			
date			05.05.2023	19.05.2023	25.04.2023	09.05.2023	25.04.2023	09.05.2023	24.04.2023	08.05.2023	24.04.2023	08.05.2023			
% PESSEV			9.1	10.3	21.3	24.1	15.6	17.8	9.2	11.2	13.8	25.6	9.1	25.6	15.80
part assessed			leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf	leaf			
No	Name	Rate (l/ha)													
1	Untreated Check		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00
2	CHR/F/SCORPIO 325 S.C	0.70	77.2	81.8	84.4	81.6	75.2	75.1	68.5	68.0	64.14	62.99	62.9	84.4	73.89
3	CHR/F/SCORPIO 325 S.C	0.80	91.0	92.1	86.5	87.3	88.8	88.4	85.1	82.2	77.78	75.14	75.1	92.1	85.43
4	CHR/F/SCORPIO 325 S.C	0.90	94.3	94.5	92.6	92.5	93.6	94.0	86.4	87.6	86.16	87.00	86.1	94.3	90.89
5	CHR/F/SCORPIO 325 S.C	1.00	93.8	95.2	96.5	95.3	96.0	96.5	85.2	88.4	92.77	91.80	85.2	96.5	93.15
6	Armistar Gold Max	1.00	95.2	95.2	93.2	93.0	92.8	92.6	82.4	84.5	91.38	91.45	82.4	95.2	91.17
	LSD (P= .05)		5.46	4.78	6.85	4.31	5.11	4.00	2.31	4.12	5.843	4.874			

Table 3e. The efficacy of CHR/F/SCORPIO in control of Alternaria brassicae in winter oilseed rape (leaf) 42-43 DA-B.

Pest code			ALTEBA (Alternaria brassicae)						
Report code			AF/22/RO/33/Pr/01	AF/22/RO/33/ZI/02	AF/22/RO/33/Go/03	AF/22/RO/33/Ma/04	Min.	Max.	Average
DA-A/B			230 DA-A; 42 DA-B	209 DA-A; 42 DA-B	223 DA-A; 43 DA-B	186 DA-A; 42 DA-B			
date			23.05.2023	23.05.2023	22.05.2023	22.05.2023			
% PESSEV			25	20	12,4	38,8	12,4	38,8	24,05
part assessed			leaf	leaf	leaf	leaf			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C	0,70	79,5	83,4	63,7	61,29	61,29	83,40	71,97
3	CHR/F/SCORPIO 325 S.C	0,80	85,3	90,0	82,9	70,88	70,88	90,00	82,27
4	CHR/F/SCORPIO 325 S.C	0,90	91,0	93,8	89,2	85,33	85,33	93,80	89,83
5	CHR/F/SCORPIO 325 S.C	1,00	95,0	96,9	88,4	93,03	88,40	96,90	93,33
6	Amistar Gold Max	1,00	93,5	94,4	80,2	92,96	80,20	94,40	90,27
	LSD (P=05)		4,42	6,48	3,06	2,413			

Table 3f. The efficacy of CHR/F/SCORPIO in control of Alternaria brassicae in winter oilseed rape (leaf) 73-84 DA-B.

Pest code			ALTEBA (Alternaria brassicae)						
Report code			AF/22/RO/33/Br/03	AF/22/RO/33/Pr/01	AF/22/RO/33/ZI/02	AF/22/RO/33/Mal/04	Min.	Max.	Average
DA-A/B			230 DA-A; 73 DA-B	268 DA-A; 80 DA-B	247 DA-A; 80 DA-B	228 DA-A; 84 DA-B			
date			03.07.2023	30.06.2023	30.06.2023	03.07.2023			
% PESSEV			11,9	29,4	22,2	41,9	11,9	41,9	26,35
part assessed			leaf	leaf	leaf	leaf			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C	0,70	85,3	80,9	79,7	61,14	61,14	85,30	76,76
3	CHR/F/SCORPIO 325 S.C	0,80	91,6	88,7	89,9	76,76	76,76	91,60	86,74
4	CHR/F/SCORPIO 325 S.C	0,90	96,8	92,3	93,5	88,25	88,25	96,80	92,71
5	CHR/F/SCORPIO 325 S.C	1,00	96,8	97,4	97,5	99,55	96,80	99,55	97,81
6	Amistar Gold Max	1,00	96,8	95,1	96,1	99,39	95,10	99,39	96,85
	LSD (P=.05)		5,75	5,80	4,13	6,700			

Table 4. The efficacy of CHR/F/SCORPIO in control of *Alternaria brassicae* in winter oilseed rape (pod).

Pest code			ALTEBA (<i>Alternaria brassicae</i>)						
Report code			A.T.2021.107.RZO	A.T/2022/007/RZO	A.T/2022/008/RZO	AF/22/RO/33/Go/03	Min.	Max.	Average
DA-A/B			86 DA-B	104 DA-B	87 DA-B	266 DA-A; 86 DA-B			
date			07.07.2022	25.07.2023	10.07.2023	04.07.2023			
% PESSEV			5,9	13,8	7,7	22,7	5,9	22,7	12,53
part assessed			Pod P	Pod P	Pod P	pod			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C.	0,70		42,4	62,9	69,8	42,40	69,80	58,37
3	CHR/F/SCORPIO 325 S.C.	0,80	85,8	54,4	70,4	81,3	54,40	85,80	72,98
4	CHR/F/SCORPIO 325 S.C.	0,90	96,0	67,5	74,2	84,8	67,50	96,00	80,63
5	CHR/F/SCORPIO 325 S.C.	1,00	100,0	74,9	81,7	85,7	74,90	100,00	85,58
6	Amistar Gold Max	1,00	100,0	75,1	81,9	82,3	75,10	100,00	84,83
	LSD (P=.05)		1,37	5,40	10,91	2,47			

Table 5. The efficacy of CHR/F/SCORPIO in control of *Verticillium longisporum* in winter oilseed rape (stem).

Pest code			VERTLO (Verticillium longisporum)									
Report code			A.T.2021.105.RZO	A.T.2021.106.RZO	A.T.2021.107.RZO	A.T.2021.108.RZO	A.T/2022/007/RZO	A.T/2022/009/RZO	A.T/2022/010/RZO	Min.	Max.	Average
DA-A			112 DA-B	91 DA-B	107 DA-B	97 DA-B	104 DA-B	105 DA-B	124 DA-B			
date			15.07.2022	19.07.2022	28.07.2022	28.07.2022	25.07.2023	04.08.2023	10.08.2023			
PESSINC %			43,3	5,80	24,70	46,90	18,60	74,90	14,10	5,80	74,90	32,61
part assessed			stem P	stem P	stem P	stem P	stem P	stem P	stem P			
No.	Name	Rate (l/ha)										
1	Untreated Check		0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C	0,70					44,20	18,40	40,80	18,40	44,20	34,47
3	CHR/F/SCORPIO 325 S.C	0,80	36,8	15,0	28,7	34,8	60,3	23,9	49,4	15,00	60,30	35,56
4	CHR/F/SCORPIO 325 S.C	0,90	53,6	33,3	39,9	36,5	60,7	24,1	61,0	24,10	61,00	44,16
5	CHR/F/SCORPIO 325 S.C	1,00	58,1	77,5	56,2	42,8	73,3	32,7	68,9	32,70	77,50	58,50
6	Amistar Gold Max	1,00	43,4	55,0	39,9	41,2	61,7	16,5	61,3	16,50	61,70	45,57
	LSD (P=.05)		13,32	40,06	16,25	13,94	9,7	15,71	9,94			

Table 6. The efficacy of CHR/F/SCORPIO in control of Sclerotinia sclerotiorum in winter oilseed rape (stem).

							No.	1	2	3	4	5	
Pest code	Report code	DA-A	date	PESSEV (class I-IV)	PESINC%	part assessed	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
							Rate (l/ha)		0,80	0,90	1,00	1,00	
SCLESC (Sclerotinia sclerotiorum)	A.T/2021/077/RZO	52 DA-A	06.07.2021	9,30	37	stem P		0,00	82,3	84,8	88,6	85,8	8,83
	A.T/2021/078/RZO	54 DA-A	08.07.2021	4,80	19,00	stem P		0,00	56,7	67,9	78,3	78,3	9,69
	A.T.2023.001.RZO	52 DA-A	07.07.2023	9,40	37	stem P		0,00	26,5	45,5	67,9	53,6	11,72
	A.T.2023.003.RZO	57 DA-A	14.07.2023	6,10	24	stem P		0,00	75,4	88,1	92,3	92,3	10,23
	A.T.2023.004.RZO	63 DA-A	14.07.2023	6,90	27	stem P		0,00	74,4	82,1	87,5	81,5	23,64
	A.T.2023.005.RZO	55 DA-A	06.07.2023	7,10	28	stem P		0,00	57,7	73,7	75,6	75,1	20,79
	AF/23/RO/9/Pr/01	43 DA-A	23.06.2023	11,10	15,3	STETOT; P		0,00	73,8	86,9	93,4	93,4	8,84
	AF/23/RO/9/JW/02	47 DA-A	26.06.2023	10,30	11,3	STETOT; P		0,00	84,4	88,9	95,6	93,3	16,61
	AF/23/RO/9/Br/03	43 DA-A	23.06.2023	11,10	12,8	STETOT; P		0,00	84,3	92,2	96,1	92,2	12,01
	AF/23/RO/9/Go/06	49 DA-A	10.07.2023	21,80	87	STEM; C		0,00	14,7	54,1	61,9	56,4	11,12
	Min.			4,80	11,30			0,00	14,70	45,50	61,90	53,60	
	Max.			21,80	87,00			0,00	84,40	92,20	96,10	93,40	
	Average			9,79	29,84			0,00	63,02	76,42	83,72	80,19	

Table 7. The efficacy of CHR/F/SCORPIO in control of *Sclerotinia sclerotiorum* in winter oilseed rape (pod).

Pest code			SCLESC (<i>Sclerotinia sclerotiorum</i>)					
Report code			AF/23/RO/9/Pr01	AF/23/RO/9/JW02	AF/23/RO/9/Br03	Min.	Max.	Average
DA-A			56 DA-A	58 DA-A	56 DA-A			
date			06.07.2023	07.07.2023	06.07.2023			
PESSEV %			8,80	6,30	13,80	6,30	13,80	9,63
part assessed			POD; P	POD; P	POD; P			
No.	Name	Rate (l/ha)						
1	Untreated Check		0,00	0,00	0,00	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C.	0,80	85,7	88,0	85,5	85,50	88,00	86,40
3	CHR/F/SCORPIO 325 S.C.	0,90	94,3	100,0	92,7	92,70	100,00	95,67
4	CHR/F/SCORPIO 325 S.C.	1,00	97,1	100,0	98,2	97,10	100,00	98,43
5	Amistar Gold Max	1,00	94,3	100,0	96,4	94,30	100,00	96,90
	LSD (P=.05)		19,81	13,34	11,4			

Table 8. The efficacy of CHR/F/SCORPIO in control of *Alternaria brassicae* in winter oilseed rape (leaf).

Pest code			ALTEBA (<i>Alternaria brassicae</i>)				
Report code			A.T/2021/077/RZO	A.T/2021/078/RZO	Min.	Max.	Average
DA-A/B			26 DA-A	23 DA-A			
date			10.06.2021	07.06.2021			
% PESSEV			5,7	5,60	5,6	5,7	5,65
part assessed			Leaf P	Leaf P			
No.	Name	Rate (l/ha)					
1	Untreated Check		0,0	0,0	0	0	0,00
2	CHR/F/SCORPIO 325 S.C.	0,80	77,8	58,6	58,6	77,8	68,20
3	CHR/F/SCORPIO 325 S.C.	0,90	81,3	60,9	60,9	81,3	71,10
4	CHR/F/SCORPIO 325 S.C.	1,00	91,9	67,3	67,3	91,9	79,60
5	Amistar Gold Max	1,00	80,2	69,2	69,2	80,2	74,70
	LSD (P=.05)		7,73	9,48			

Table 9. The efficacy of CHR/F/SCORPIO in control of *Alternaria brassicae* in winter oilseed rape (stem).

Pest code			ALTEBA (<i>Alternaria brassicae</i>)					
Report code			AF/23/RO/9/Br03	AF/23/RO/9/Zl05	AF/23/RO/9/Pr07	Min.	Max.	Average
DA-A/B			43 DA-A	47 DA-A	32 DA-A			
date			23.06.2023	26.06.2023	26.06.2023			
% PESSEV			6,30	6,3	6,3	6,3	6,3	6,30
part assessed			STETOT;	STETOT;	STETOT; P			
No.	Name	Rate (l/ha)						
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0
2	CHR/F/SCORPIO 325 S.C.	0,80	92,0	84,0	88,0	84,0	92,0	88,0
3	CHR/F/SCORPIO 325 S.C.	0,90	92,0	96,0	96,0	92,0	96,0	94,7
4	CHR/F/SCORPIO 325 S.C.	1,00	100,0	100,0	100,0	100,0	100,0	100,0
5	Amistar Gold Max	1,00	96,0	96,0	96,0	96,0	96,0	96,0
	LSD (P=.05)		11,83	14,32	8,31			

Table 10. The efficacy of CHR/F/SCORPIO in control of *Alternaria brassicae* in winter oilseed rape (pod).

Pest code			ALTEBA (<i>Alternaria brassicae</i>)								
Report code			A.T/2021/077/RZO	A.T/2021/077/RZO	A.T.2023.001.RZO	A.T.2023.003.RZO	AF/23/RO/9/Z105	AF/23/RO/9/Pr07	Min.	Max.	Average
DA-A/B			52 DA-A	65 DA-A	85 DA-A	84 DA-A	58 DA-A	43 DA-A			
date			06.07.2021	19.07.2021	25.07.2023	10.08.2023	07.07.2023	07.07.2023			
% PESSEV			9	19,9	15,00	15,00	8,8	5,00	5	19,9	12,12
part assessed			POD; P	POD; P	POD; P	POD; P	POD; P	POD; P			
No.	Name	Rate (l/ha)									
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,0	0	0	0,00
2	CHR/F/SCORPIO 325 S.C.	0,80	63,6	67,1	59,0	43,3	94,3	90,0	43,3	94,3	69,55
3	CHR/F/SCORPIO 325 S.C.	0,90	76,2	73,4	69,4	55,5	91,4	95,0	55,5	95	76,82
4	CHR/F/SCORPIO 325 S.C.	1,00	81,4	83,5	80,6	62,1	100,0	100,0	62,1	100	84,60
5	Amistar Gold Max	1,00	82,6	72,2	77,4	65,3	97,1	100,0	65,3	100	82,43
	LSD (P=.05)		4,44	6,92	5,89	10,71	16,06	11,25			

Table 11. The efficacy of CHR/F/SCORPIO in control of Botrytis cinerea in winter oilseed rape (leaf).

Pest code			BOTRCI (Botrytis cinerea)				
Report code			A.T/2021/077/RZO	A.T/2021/078/RZO	Min.	Max.	Average
DA-A			26 DA-A	23 DA-A			
date			10.06.2021	07.06.2021			
PESSEV %			13,80	5,70	5,70	13,80	9,75
part assessed			leaf P	leaf P			
No.	Name	Rate (l/ha)					
1	Untreated Check		0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C.	0,80	65,1	70,2	65,10	70,20	67,65
3	CHR/F/SCORPIO 325 S.C.	0,90	74,9	74,3	74,30	74,90	74,60
4	CHR/F/SCORPIO 325 S.C.	1,00	81,3	85,3	81,30	85,30	83,30
5	Amistar Gold Max	1,00	81,8	82,4	81,80	82,40	82,10
	LSD (P=.05)		7,70	6,58			

Table 12. The efficacy of CHR/F/SCORPIO in control of Botrytis cinerea in winter oilseed rape (stem).

Pest code			BOTRCI (Botrytis cinerea)						
Report code			A.T/2021/078/RZO	AF/23/RO/9/Ma04	AF/23/RO/9/ZI05	AF/23/RO/9/Pr07	Min.	Max.	Average
DA-A			30 DA-A	28 DA-A	47 DA-A	32 DA-A			
date			14.06.2021	23.06.2023	26.06.2023	26.06.2023			
PESSEV %			4,10	3,50	3,80	8,50	3,50	8,50	4,98
PESINC %			16,00	11,50	12,30	14,80	11,50	16,00	13,65
part assessed			stem P	STETOT;	STETOT; P	STETOT; P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C.	0,80	54,2	87,0	83,7	89,8	54,20	89,80	78,68
3	CHR/F/SCORPIO 325 S.C.	0,90	66,7	95,7	93,9	94,9	66,70	95,70	87,80
4	CHR/F/SCORPIO 325 S.C.	1,00	89,6	97,8	98,0	98,3	89,60	98,30	95,93
5	Amistar Gold Max	1,00	83,3	95,7	91,8	98,3	83,30	98,30	92,28
	LSD (P=.05)		16,47	9,71	8,47	6,04			

Table 13. The efficacy of CHR/F/SCORPIO in control of Botrytis cinerea in winter oilseed rape (pod).

Pest code			BOTRCI (Botrytis cinerea)							
Report code			A.T.2023.001.RZO	A.T.2023.002.RZO	AF/23/RO/9/Ma/04	AF/23/RO/9/ZI/05	AF/23/RO/9/Pr/07	Min.	Max.	Average
DA-A			67 DA-A	54 DA-A	41 DA-A	58 DA-A	43 DA-A			
date			07.07.2023	10.07.2023	06.07.2023	07.07.2023	07.07.2023			
PESSEV %			11,80	6,10	17,50	20,00	37,50	6,10	37,50	18,58
PESINC %			31,00	87,00		17,00	21,50	17,00	87,00	39,13
part assessed			POD; P	POD; P	POD; P	POD; P	POD; P			
No.	Name	Rate (l/ha)								
1	Untreated Check		0,0	0,0	0,0	0,0	0,0	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C.	0,80	57,0	66,3	90,0	86,3	90,7	57,00	90,70	78,06
3	CHR/F/SCORPIO 325 S.C.	0,90	71,6	76,0	94,3	92,5	96,7	71,60	96,70	86,22
4	CHR/F/SCORPIO 325 S.C.	1,00	82,2	83,5	97,1	96,3	98,7	82,20	98,70	91,56
5	Amistar Gold Max	1,00	77,4	85,9	97,1	93,8	98,0	77,40	98,00	90,44
	LSD (P=.05)		4,74	1,30	6,58	6,41	14,01			

Table 14. The efficacy of CHR/F/SCORPIO in control of *Verticillium longisporum* in winter oilseed rape (stem).

Pest code			VERTLO (<i>Verticillium longisporum</i>)						
Report code			A.T.2023.001.RZO	A.T.2023.003.RZO	A.T.2023.004.RZO	A.T.2023.005.RZO	Min.	Max.	Average
DA-A			85 DA-A	84 DA-A	87 DA-A	83 DA-A			
date			25.07.2023	10.08.2023	07.08.2023	03.08.2023			
PESSEV (%)			78,50	18,90	11,00	18,90	11,00	78,50	31,83
part assessed			stem P	stem P	stem P	stem P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,00	0,00	0,00	0,00	0,00	0,00	0,00
2	CHR/F/SCORPIO 325 S.C.	0,80	14,1	20,9	23,8	31,3	14,10	31,30	22,53
3	CHR/F/SCORPIO 325 S.C.	0,90	23,0	33,4	40,7	41,5	23,00	41,50	34,65
4	CHR/F/SCORPIO 325 S.C.	1,00	14,3	43,9	47,3	51,2	14,30	51,20	39,18
5	Amistar Gold Max	1,00	22,9	42,8	43,4	33,8	22,90	43,40	35,73
	LSD (P=.05)		16,17	9,24	7,42	32,81			

Table 15. The efficacy of CHR/F/SCORPIO in control of Cercospora beticola in sugar beet all assessment.

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	0,90	1,00	1,00	
CERCBE (Cercospora beticola)	A.T/2021/079/BC	38 DA-A	06.09.2021	5,3	Leaf P		0,0	48,9	71,1	74,2	78,8	79,3	7,50
	A.T/2021/079/BC	69 DA-A	07.10.2021	31,1	Leaf P		0,0	35,7	47,3	49,1	60,5	69,4	11,56
	A.T/2021/080/BC	38 DA-A	10.09.2021	5	Leaf P		0,0	54,2	59,8	71,0	80,5	78,7	4,90
	A.T/2021/080/BC	66 DA-A	08.10.2021	18,80	Leaf P		0,0	44,7	56,7	59,9	73,4	73,8	8,66
	A.T/2023/006/BC	32 DA-A	31.07.2023	5,2	Leaf P		0,0	40,6	48,7	57,3	69,4	54,9	20,38
	A.T/2023/006/BC	77 DA-A	14.09.2023	8,3	Leaf P		0,0	30,3	45,1	56,8	57,4	45,7	9,24
	A.T/2023/007/BC	78 DA-A	19.10.2023	26,3	Leaf P		0,0	36,0	46,6	61,2	75,3	67,7	7,33
	A.T/2023/008/BC	39 DA-A	05.08.2023	5,4	Leaf P		0,0	53,0	54,0	65,0	75,9	59,7	12,18
	A.T/2023/008/BC	114 DA-A	19.10.2023	18,5	Leaf P		0,0	18,4	26,6	29,4	34,3	24,8	10,51
	A.T/2023/009/BC	34 DA-A	09.08.2023	5,4	Leaf P		0,0	62,6	67,8	78,8	89,1	89,1	8,25
	A.T/2023/010/BC	39 DA-A	08.09.2023	8,4	Leaf P		0,0	70,3	75,8	81,9	86,3	78,4	6,01
	AF/23/BC/9/JW/1	14 DA-A	09.08.2023	10,3	Leaf P		0,0	58,8	64,2	66,1	79,4	81,2	9,94
	AF/23/BC/9/JW/1	28 DA-A	23.08.2023	15	Leaf P		0,0	60,4	72,9	80,8	92,5	92,9	7,96
	AF/23/BC/9/JW/1	49 DA-A	13.09.2023	18,1	Leaf P		0,0	63,8	74,8	82,8	92,8	93,4	5,67
	AF/23/BC/9/ZI/2	14 DA-A	24.08.2023	9,4	Leaf P		0,0	66,0	76,0	83,3	92,0	86,7	13,44
	AF/23/BC/9/ZI/2	28 DA-A	07.09.2023	13,4	Leaf P		0,0	73,0	81,4	87,9	93,0	94,4	4,07
	AF/23/BC/9/ZI/2	49 DA-A	28.09.2023	18,8	Leaf P		0,0	80,3	84,3	89,7	94,3	93,0	5,71
	AF/23/BC/9/Or/3	22 DA-A	15.09.2023	17,81	PLANT; C		0,0	79,2	84,2	83,8	91,0	87,9	9,56
	AF/23/BC/9/Or/3	43 DA-A	06.10.2023	35,94	PLANT; C		0,0	78,0	89,4	88,8	93,3	94,1	6,24
	AF/23/BC/9/Br/4	14 DA-A	05.09.2023	10,6	Leaf		0,0	72,4	82,4	84,7	88,8	90,0	15,80
	AF/23/BC/9/Br/4	28 DA-A	19.09.2023	14,7	Leaf		0,0	73,6	83,0	86,4	92,8	93,2	9,61
	AF/23/BC/9/Br/4	42 DA-A	03.10.2023	16,9	Leaf		0,0	71,9	82,2	89,6	93,7	95,6	5,02
	Min.			5			0	18,4	26,6	29,4	34,3	24,8	
	Max.			35,94			0	80,3	89,4	89,7	94,3	95,6	

	Average			14,48			0,00	57,8	67,0	73,1	81,1	78,4	
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Table 15a. The efficacy of CHR/F/SCORPIO in control of Cercospora beticola in sugar beet 14-22 DA-A.

Pest code			CERCBE (Cercospora beticola)						
Report code			AF/23/BC/9/JW/1	AF/23/BC/9/ZI/2	AF/23/BC/9/Or/3	AF/23/BC/9/Br/4	Min.	Max.	Average
DA-A/B			14 DA-A	14 DA-A	22 DA-A	14 DA-A			
date			09.08.2023	24.08.2023	15.09.2023	05.09.2023			
% PESSEV			10.3	9.4	17.81	10.6	9.4	17.81	12.03
part assessed			Leaf P	Leaf P	PLANT; C	Leaf			
No.	Name	Rate (l/ha)							
1	Untreated Check		0.0	0.0	0.0	0.0	0	0	0.00
2	CHR/F/SCORPIO 325 S.C	0.60	58.8	66.0	79.2	72.4	58.8	79.2	69.1
3	CHR/F/SCORPIO 325 S.C	0.80	64.2	76.0	84.2	82.4	64.2	84.2	76.7
4	CHR/F/SCORPIO 325 S.C	0.90	66.1	83.3	83.8	84.7	66.1	84.7	79.5
5	CHR/F/SCORPIO 325 S.C	1.00	79.4	92.0	91.0	88.8	79.4	92.0	87.8
6	Amistar Gold Max	1.00	81.2	86.7	87.9	90.0	81.2	90.0	86.5
	LSD (P=0.05)		9.94	13.44	9.56	15.80			

Table 15b. The efficacy of CHR/F/SCORPIO in control of Cercospora beticola in sugar beet 28-43 DA-A.

Pest code			CERCBE (Cercospora beticola)													
Report code			A.T/2021/079/B	A.T/2021/080/B	A.T/2023/006/B	A.T/2023/008/B	A.T/2023/009/B	A.T/2023/010/B	AF/23/BC/9/JW	AF/23/BC/9/ZL	AF/23/BC/9/Or	AF/23/BC/9/Br	AF/23/BC/9/Br	Min	Max	Average
DA-A/B			38 DA-A	38 DA-A	32 DA-A	39 DA-A	34 DA-A	39 DA-A	28 DA-A	28 DA-A	43 DA-A	28 DA-A	42 DA-A			
date			06.09.2021	10.09.2021	31.07.2023	05.08.2023	09.08.2023	08.09.2023	23.08.2023	07.09.2023	06.10.2023	19.09.2023	03.10.2023			
% PESSEV			5.3	5	5.2	5.4	5.4	8.4	15	13.4	35.94	14.7	16.9	5	35.9	11.88
part assessed			Leaf P	Leaf P	Leaf P	Leaf P	Leaf P	Leaf P	Leaf P	Leaf P	PLANT; C	Leaf	Leaf			
No	Name	Rate (l/ha)														
1	Untreated Check		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.00
2	CHR/F/SCORPIO 325 S.C	0.60	48.9	54.2	40.6	53.0	62.6	70.3	60.4	73.0	74.0	73.6	71.9	40.6	78.0	62.4
3	CHR/F/SCORPIO 325 S.C	0.80	71.1	59.8	48.7	54.0	67.8	75.8	72.9	81.4	89.4	83.0	82.2	48.7	89.4	71.5
4	CHR/F/SCORPIO 325 S.C	0.90	74.2	71.0	57.3	65.0	78.8	81.9	80.8	87.9	88.8	86.4	89.6	57.3	89.6	78.3
5	CHR/F/SCORPIO 325 S.C	1.00	78.8	80.5	69.4	75.9	89.1	86.3	92.5	93.0	93.3	92.8	93.7	69.4	93.7	85.9
6	Amistar Gold Max	1.00	79.3	78.7	54.9	59.7	89.1	78.4	92.9	94.4	94.1	93.2	95.6	54.9	95.6	82.8
	LSD (P= .05)		7.50	4.90	20.38	12.18	8.25	6.01	7.96	4.07	6.24	9.61	5.02			

Table 15c. The efficacy of CHR/F/SCORPIO in control of Cercospora beticola in sugar beet 49 DA-A.

Pest code			CERCBE (Cercospora beticola)				
Report code			AF/23/BC/9/JW/1	AF/23/BC/9/Z/2	Min	Max	Average
DA-A/B			49 DA-A	49 DA-A			
date			13.09.2023	28.09.2023			
% PESSEV			18,1	18,8	18,1	18,8	18,45
part assessed			Leaf P	Leaf P			
No.	Name	Rate (l/ha)					
1	Untreated Check		0,0	0,0	0	0	0,00
2	CHR/F/SCORPIO 325 S.C	0.60	63,8	80,3	63,8	80,3	72,1
3	CHR/F/SCORPIO 325 S.C	0.80	74,8	84,3	74,8	84,3	79,6
4	CHR/F/SCORPIO 325 S.C	0.90	82,8	89,7	82,8	89,7	86,3
5	CHR/F/SCORPIO 325 S.C	1.00	92,8	94,3	92,8	94,3	93,6
6	Amistar Gold Max	1.00	93,4	93,0	93,0	93,4	93,2
	LSD (P=.05)		5,67	5,71			

Table 15d. The efficacy of CHR/F/SCORPIO in control of Cercospora beticola in sugar beet 66-78 DA-A.

Pest code			CERCBE (Cercospora beticola)						
Report code			A.T/2021/079/BC	A.T/2021/080/BC	A.T/2023/006/BC	A.T/2023/007/BC	Min.	Max.	Average
DA-A/B			69 DA-A	66 DA-A	77 DA-A	78 DA-A			
date			07.10.2021	08.10.2021	14.09.2023	19.10.2023			
% PESSEV			31,1	18,80	8,3	26,3	8,3	31,1	21,13
part assessed			Leaf P	Leaf P	Leaf P	Leaf P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0	0	0,00
2	CHR/F/SCORPIO 325 S.C	0,60	35,7	44,7	30,3	36,0	30,3	44,7	36,7
3	CHR/F/SCORPIO 325 S.C	0,80	47,3	56,7	45,1	46,6	45,1	56,7	48,9
4	CHR/F/SCORPIO 325 S.C	0,90	49,1	59,9	56,8	61,2	49,1	61,2	56,8
5	CHR/F/SCORPIO 325 S.C	1,00	60,5	73,4	57,4	75,3	57,4	75,3	66,7
6	Amistar Gold Max	1,00	69,4	73,8	45,7	67,7	45,7	73,8	64,2
	LSD (P=,05)		11,56	8,66	9,24	7,33			

Table 16. The efficacy of CHR/F/SCORPIO in control of *Ramularia beticola* in sugar beet all assessment.

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A/B	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	0,90	1,00	1,00	
RAMUBE (<i>Ramularia beticola</i>)	A.T/2021/079/BC	38 DA-A	06.09.2021	5,3	Leaf P		0,0	61,6	84,9	85,5	90,4	88,3	6,75
	A.T/2023/006/BC	32 DA-A	31.07.2023	5,4	Leaf P		0,0	38,5	64,2	72,1	83,5	80,1	12,67
	A.T/2023/006/BC	77 DA-A	14.09.2023	17,8	Leaf P		0,0	29,9	46,5	53,6	53,9	40,8	14,55
	A.T/2023/007/BC	36 DA-A	07.09.2023	5,40	Leaf P		0,0	45,5	58,5	67,4	80,7	75,5	8,22
	A.T/2023/007/BC	78 DA-A	19.10.2023	11,8	Leaf P		0,0	19,1	36,2	48,9	57,4	48,9	10,67
	A.T/2023/008/BC	114 DA-A	19.10.2023	5	Leaf P		0,0	15,0	15,0	25,0	25,0	20,0	9,26
	A.T/2023/009/BC	34 DA-A	09.08.2023	6	Leaf P		0,0	59,7	60,6	68,2	81,6	80,3	9,37
	AF/23/BC/9/Pr/5	14 DA-A	28.07.2023	13,8	Leaf P		0,0	65,0	73,2	81,4	88,2	88,6	13,31
	AF/23/BC/9/Pr/5	32 DA-A	15.08.2023	15,9	Leaf P		0,0	71,8	81,6	84,3	92,5	94,1	8,79
	AF/23/BC/9/Pr/5	56 DA-A	08.09.2023	21,6	Leaf P		0,0	76,5	87,2	89,0	94,8	96,5	3,17
	AF/23/BC/9/Wyr/6	21 DA-A	11.09.2023	15,3	Plant C		0,0	78,7	85,2	80,9	86,2	83,5	10,52
	AF/23/BC/9/Wyr/6	42 DA-A	02.10.2023	18,4	Plant C		0,0	74,9	84,1	83,0	91,9	89,5	5,81
	AF/23/BC/9/ZL/7	14 DA-A	04.09.2023	10,3	Leaf P		0,0	60,0	76,4	83,6	86,1	84,8	16,28
	AF/23/BC/9/ZL/7	29 DA-A	19.09.2023	15,6	Leaf P		0,0	76,4	82,4	89,2	92,8	93,6	7,33
	AF/23/BC/9/ZL/7	43 DA-A	03.10.2023	17,5	Leaf P		0,0	77,9	86,4	91,8	94,6	95,7	8,04
	AF/23/BC/9/Ma/8	14 DA-A	17.08.2023	12,8	Leaf P		0,0	67,8	76,1	86,3	89,3	91,7	16,32
	AF/23/BC/9/Ma/8	28 DA-A	31.08.2023	15,6	Leaf P		0,0	78,8	84,8	90,4	93,2	96,0	9,24
	AF/23/BC/9/Ma/8	43 DA-A	15.09.2023	18,1	Leaf P		0,0	80,7	89,0	93,1	97,2	97,9	6,65
	Min.			5			0	15,0	15,0	25,0	25,0	20,0	
	Max.			21,6			0	80,7	89,0	93,1	97,2	97,9	
	Average			12,87			0,00	59,9	70,7	76,3	82,2	80,3	

Table 16a. The efficacy of CHR/F/SCORPIO in control of Ramularia beticola in sugar beet 14-21 DA-A.

	Pest code		RAMUBE (Ramularia beticola)						
	Report code		AF/23/BC/9/Pr/5	AF/23/BC/9/Wyr/6	AF/23/BC/9/ZL/7	AF/23/BC/9/Ma/8	Min.	Max.	Average
	DA-A/B		14 DA-A	21 DA-A	14 DA-A	14 DA-A			
	date		28.07.2023	11.09.2023	04.09.2023	17.08.2023			
	% PESSEV		13,8	15,3	10,3	12,8	10,3	15,3	13,05
	part assessed		Leaf P	Plant C	Leaf P	Leaf P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0	0	0,00
2	CHR/F/SCORPIO 325 S.C.	0.60	65,0	78,7	60,0	67,8	60,0	78,7	67,9
3	CHR/F/SCORPIO 325 S.C.	0.80	73,2	85,2	76,4	76,1	73,2	85,2	77,7
4	CHR/F/SCORPIO 325 S.C.	0.90	81,4	80,9	83,6	86,3	80,9	86,3	83,1
5	CHR/F/SCORPIO 325 S.C.	1.00	88,2	86,2	86,1	89,3	86,1	89,3	87,5
6	Amistar Gold Max	1.00	88,6	83,5	84,8	91,7	83,5	91,7	87,2
	LSD (P=.05)		13,31	10,52	16,28	16,32			

Table 16b. The efficacy of CHR/F/SCORPIO in control of Ramularia beticola in sugar beet 28-43 DA-A.

Pest code			RAMUBE (Ramularia beticola)												
Report code			A.T/2021/079/BC	A.T/2023/006/BC	A.T/2023/007/BC	A.T/2023/009/BC	AF/23/BC/9/Pr/5	AF/23/BC/9/Wyr/6	AF/23/BC/9/ZL/7	AF/23/BC/9/ZL/7	AF/23/BC/9/Ma/8	AF/23/BC/9/Ma/8	Min	Max	Average
DA-A/B			38 DA-A	32 DA-A	36 DA-A	34 DA-A	32 DA-A	42 DA-A	29 DA-A	43 DA-A	28 DA-A	43 DA-A			
date			06.09.2021	31.07.2023	07.09.2023	09.08.2023	15.08.2023	02.10.2023	19.09.2023	03.10.2023	31.08.2023	15.09.2023			
% PESSEV			5.3	5.4	5.40	5	15.9	18.4	15.6	17.5	15.6	18.1	5.3	18.4	12.32
part assessed			Leaf P	Leaf P	Leaf P	Leaf P	Leaf P	Plant C	Leaf P	Leaf P	Leaf P	Leaf P			
No.	Name	Rate (l/ha)													
1	Untreated Check		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.00
2	CHR/F/SCORPIO 325 S.C.	0.60	61.6	38.5	45.5	59.7	71.8	74.9	76.4	77.9	78.8	80.7	38.5	80.7	66.6
3	CHR/F/SCORPIO 325 S.C.	0.80	84.9	64.2	58.5	60.6	81.6	84.1	82.4	86.4	84.8	89.0	58.5	89.0	77.7
4	CHR/F/SCORPIO 325 S.C.	0.90	85.5	72.1	67.4	68.2	84.5	83.0	89.2	91.8	90.4	93.7	67.4	93.1	82.5
5	CHR/F/SCORPIO 325 S.C.	1.00	90.4	83.5	80.7	81.6	92.5	91.9	92.8	94.6	93.2	97.2	80.7	97.2	89.8
6	Amistar Gold Max	1.00	88.3	80.1	75.5	80.3	94.1	89.5	93.6	95.7	96.0	97.9	75.5	97.9	89.1
LSD (P= .05)			6.75	12.67	8.22	9.37	8.79	5.81	7.33	8.04	9.24	6.65			

Table 16c. The efficacy of CHR/F/SCORPIO in control of Ramularia beticola in sugar beet 56-114 DA-A.

Pest code			RAMUBE (Ramularia beticola)						
Report code			A.T/2023/006/BC	A.T/2023/007/BC	A.T/2023/008/BC	AF/23/BC/9/Pr/5	Min.	Max.	Average
DA-A/B			77 DA-A	78 DA-A	114 DA-A	56 DA-A			
date			14.09.2023	19.10.2023	19.10.2023	08.09.2023			
% PESSEV			17,8	11,8	5	21,6	5	21,6	14,05
part assessed			Leaf P	Leaf P	Leaf P	Leaf P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0	0	0,00
2	CHR/F/SCORPIO 325 S.C	0,60	29,9	19,1	15,0	76,5	15,0	76,5	35,1
3	CHR/F/SCORPIO 325 S.C	0,80	46,5	36,2	15,0	87,2	15,0	87,2	46,2
4	CHR/F/SCORPIO 325 S.C	0,90	53,6	48,9	25,0	89,0	25,0	89,0	54,1
5	CHR/F/SCORPIO 325 S.C	1,00	53,9	57,4	25,0	94,8	25,0	94,8	57,8
6	Amistar Gold Max	1,00	40,8	48,9	20,0	96,5	20,0	96,5	51,6
	LSD (P=.05)		14,55	10,67	9,26	3,17			

Table 17. The efficacy of CHR/F/SCORPIO in control of Erysiphe betae in sugar beet all assessment

						No.	1	2	3	4	5	6	
Pest code	Report code	DA-A	date	% PESSEV	part assessed	Name	Untreated Check	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	CHR/F/SCORPIO 325 S.C.	Amistar Gold Max	LSD (P=.05)
						Rate (l/ha)		0,60	0,80	0,90	1,00	1,00	
ERYSBE (Erysiphe betae)	A.T/2023/008/BC	114 DA-A	19.10.2023	8,4	LeafP		0,0	8,8	8,8	13,2	13,4	11,9	7,62
	AF/23/BC/9/JW/1	28 DA-A	23.08.2023	5,6	LeafP		0,0	77,8	85,6	90,0	93,3	95,6	9,04
	AF/23/BC/9/JW/1	49 DA-A	13.09.2023	7,2	LeafP		0,0	73,0	84,3	86,1	93,0	95,7	12,63
	AF/23/BC/9/ZI/2	14 DA-A	24.08.2023	7,80	LeafP		0,0	38,7	66,1	75,0	79,8	72,6	24,98
	AF/23/BC/9/ZI/2	28 DA-A	07.09.2023	9,7	LeafP		0,0	70,3	77,4	80,6	89,7	87,7	17,02
	AF/23/BC/9/ZI/2	49 DA-A	28.09.2023	11,9	LeafP		0,0	80,5	89,5	90,0	93,7	93,7	9,57
	AF/23/BC/9/Br/4	14 DA-A	05.09.2023	7,1	Leaf		0,0	66,4	87,6	83,2	89,4	91,2	18,43
	AF/23/BC/9/Br/4	28 DA-A	19.09.2023	9,1	Leaf		0,0	71,0	84,8	83,4	94,5	94,5	11,58
	AF/23/BC/9/Br/4	42 DA-A	03.10.2023	11,6	Leaf		0,0	77,8	86,5	89,7	96,2	97,3	6,01
	AF/23/BC/9/Pr/5	56 DA-A	08.09.2023	8,4	LeafP		0,0	83,0	88,1	87,4	94,1	97,0	13,42
	AF/23/BC/9/Ma/8	28 DA-A	31.08.2023	5,4	LeafP		0,0	78,2	85,1	80,5	95,4	95,4	14,90
	AF/23/BC/9/Ma/8	43 DA-A	15.09.2023	7,8	LeafP		0,0	76,8	89,6	82,4	97,6	96,8	6,35
	AF/24/BC/29/Br/01	19 DA-A	23.07.2024	19,7	Leaf		0,0	87,9	92,4	93,0	96,2	96,5	4,24
	AF/24/BC/29/Br/01	40 DA-A	13.08.2024	26,6	Leaf		0,0	89,2	92,7	93,9	96,5	98,1	3,44
	AF/24/BC/29/Pr/02	17 DA-A	26.08.2024	7,2	Leaf		0,0	77,4	84,3	87,8	92,2	81,7	7,05
	AF/24/BC/29/Pr/02	40 DA-A	18.09.2024	11,6	Leaf		0,0	81,6	90,8	91,4	95,1	90,8	5,70
	AF/24/BC/29/ZI/03	20 DA-A	23.07.2024	14,4	Leaf		0,0	84,8	89,6	94,8	95,7	92,6	4,56
	AF/24/BC/29/ZI/03	40 DA-A	20.08.2024	20,6	Leaf		0,0	83,3	89,4	93,9	95,5	93,0	6,09
	Min.			5,4			0,0	8,8	8,8	13,2	13,4	11,9	
	Max.			26,6			0,0	89,2	92,7	94,8	97,6	98,1	
	Average			11,12			0,00	72,58	81,81	83,13	88,96	87,89	

Table 17a. The efficacy of CHR/F/SCORPIO in control of Erysiphe betae in sugar beet 14-20 DA-A

	Pest code		ERYSBE (Erysiphe betae)							
	Report code		AF/23/BC/9/ZI/2	AF/23/BC/9/Br/4	AF/24/BC/29/Br/01	AF/24/BC/29/Pr/02	AF/24/BC/29/ZI/03	Min.	Max.	Average
	DA-A/B		14 DA-A	14 DA-A	19 DA-A	17 DA-A	20 DA-A			
	date		24.08.2023	05.09.2023	23.07.2024	26.08.2024	23.07.2024			
	% PESSEV		7.80	7.1	19.7	7.2	14.4	7.1	19.7	11.24
	part assessed		Leaf P	Leaf	Leaf	Leaf	Leaf			
No.	Name	Rate (l/ha)								
1	Untreated Check		0.0	0.0	0.0	0.0	0.0	0	0	0.00
2	CHR/F/SCORPIO 325 S.C	0.60	38.7	66.4	87.9	77.4	84.8	38.7	87.9	71.0
3	CHR/F/SCORPIO 325 S.C	0.80	66.1	87.6	92.4	84.3	89.6	66.1	92.4	84.0
4	CHR/F/SCORPIO 325 S.C	0.90	75.0	83.2	93.0	87.8	94.8	75.0	94.8	86.8
5	CHR/F/SCORPIO 325 S.C	1.00	79.8	89.4	96.2	92.2	95.7	79.8	96.2	90.7
6	Amistar Gold Max	1.00	72.6	91.2	96.5	81.7	92.6	72.6	96.5	86.9
	LSD (P=.05)		24.98	18.43	4.24	7.05	4.56			

Table 17b. The efficacy of CHR/F/SCORPIO in control of Erysiphe betae in sugar beet 28-43 DA-A

	Pest code		ERYSBE (Erysiphe betae)											
	Report code		AF/23/BC/9/JW/1	AF/23/BC/9/ZI/2	AF/23/BC/9/Br/4	AF/23/BC/9/Br/4	AF/23/BC/9/Ma/8	AF/23/BC/9/Ma/8	AF/24/BC/29/Br/01	AF/24/BC/29/Pr/02	AF/24/BC/29/ZI/03	Min.	Max.	Average
	DA-A		28 DA-A	28 DA-A	28 DA-A	42 DA-A	28 DA-A	43 DA-A	40 DA-A	40 DA-A	40 DA-A			
	date		23.08.2023	07.09.2023	19.09.2023	03.10.2023	31.08.2023	15.09.2023	13.08.2024	18.09.2024	20.08.2024			
	% PESSEV		5.6	9.7	9.1	11.6	5.4	7.8	26.6	11.6	20.6	5.4	26.6	12.00
	part assessed		Leaf P	Leaf P	Leaf	Leaf	Leaf P	Leaf P	Leaf	Leaf	Leaf			
No.	Name	Rate (l/ha)												
1	Untreated Check		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.00
2	CHR/F/SCORPIO 325 S.C.	0.60	77.8	70.3	71.0	77.8	78.2	76.8	89.2	81.6	83.3	70.3	89.2	78.4
3	CHR/F/SCORPIO 325 S.C.	0.80	85.6	77.4	84.8	86.5	85.1	89.6	92.7	90.8	89.4	77.4	92.7	86.9
4	CHR/F/SCORPIO 325 S.C.	0.90	90.0	80.6	83.4	89.7	80.5	82.4	93.9	91.4	93.9	80.5	93.9	87.3
5	CHR/F/SCORPIO 325 S.C.	1.00	93.3	89.7	94.5	96.2	95.4	97.6	96.5	95.1	95.5	89.7	97.6	94.9
6	Amistar Gold Max	1.00	95.6	87.7	94.5	97.3	95.4	96.8	98.1	90.8	93.0	87.7	98.1	94.4
7	LSD (P= .05)		9.04	17.02	11.58	6.01	14.90	6.35	3.44	5.70	6.09			

Table 17c. The efficacy of CHR/F/SCORPIO in control of Erysiphe betae in sugar beet 49-114 DA-A

Pest code			ERYSBE (Erysiphe betae)						
Report code			A.T/2023/008/BC	AF/23/BC/9/JW/1	AF/23/BC/9/ZI/2	AF/23/BC/9/Pr/5	Min.	Max.	Average
DA-A/B			114 DA-A	49 DA-A	49 DA-A	56 DA-A			
date			19.10.2023	13.09.2023	28.09.2023	08.09.2023			
% PESSEV			8,4	7,2	11,9	8,4	7,2	11,9	8,98
part assessed			Leaf P	Leaf P	Leaf P	Leaf P			
No.	Name	Rate (l/ha)							
1	Untreated Check		0,0	0,0	0,0	0,0	0	0	0,00
2	CHR/F/SCORPIO 325 S.C	0,60	8,8	73,0	80,5	83,0	8,8	83,0	61,3
3	CHR/F/SCORPIO 325 S.C	0,80	8,8	84,3	89,5	88,1	8,8	89,5	67,7
4	CHR/F/SCORPIO 325 S.C	0,90	13,2	86,1	90,0	87,4	13,2	90,0	69,2
5	CHR/F/SCORPIO 325 S.C	1,00	13,4	93,0	93,7	94,1	13,4	94,1	73,6
6	Amistar Gold Max	1,00	11,9	95,7	93,7	97,0	11,9	97,0	74,6
	LSD (P=,05)		7,62	12,63	9,57	13,42			

Appendix 6 Summary of phytotoxicity trials data in summary form

Table 1 – data from phytotoxicity trials – winter oilseed rape application autumn and spring

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %								
A.T.2021.105.RZO	Timing of assessment	DA-A	7 DA-A	17 DA-A	50 DA-A	12 DA-B	25 DA-B	103 DA-B			
	date		27.09.2021	07.10.2021	09.11.2021	06.04.2022	19.04.2022	06.07.2022			
	Untreated		0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	0			
	Amistar Gold Max	1	0	0	0	0	0	0			
	LSD (P=.05)		-	-	-	-	-	-			
A.T.2021.106.RZO	Timing of assessment	DA-A	11 DA-A	24 DA-A	35 DA-A	11 DA-B	16 DA-B	85 DA-B			
	date		15.10.2021	28.10.2021	08.11.2021	30.04.2022	05.05.2022	13.07.2022			
	Untreated		0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	0			
	Amistar Gold Max	1	0	0	0	0	0	0			
	LSD (P=.05)		-	-	-	-	-	-			
A.T.2021.107.RZO	Timing of assessment	DA-A	13 DA-A	24 DA-A	14 DA-B	28 DA-B	86 DA-B	-			
	date		04.10.2021	15.10.2021	26.04.2022	10.05.2022	07.07.2022	-			

	Untreated		0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	-			
	Amistar Gold Max	1	0	0	0	0	0	-			
	LSD (P=.05)		-	-	-	-	-	-			
A.T.2021.108.RZO	Timing of assessment	DA-A	7 DA-A	21 DA-A	14 DA-B	25 DA-B	84 DA-B	-			
	date		26.10.2021	09.11.2021	06.05.2022	17.05.2022	15.07.2022	-			
	Untreated		0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	-			
	Amistar Gold Max	1	0	0	0	0	0	-			
	LSD (P=.05)		-	-	-	-	-	-			
A.T/2022/007/RZO	Timing of assessment	DA-A	8 DA-A	27 DA-A	9 DA-B	16 DA-B	-	-			
	date		21.10.2022	09.11.2022	21.04.2023	28.04.2023	-	-			
	Untreated		0	0	0	0	-	-			
	CHR/F/SCORPIO 325 SC	0,7	0	0	0	0	-	-			
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	-	-			
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	-	-			
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	-	-			
	Amistar Gold Max	1	0	0	0	0	-	-			
	LSD (P=.05)		-	-	-	-	-	-			
A.T/2022/008/RZO	Timing of assessment	DA-A	7 DA-A	28 DA-A	12 DA-B	24 DA-B	87 DA-B				

	date		26.10.2022	16.11.2022	26.04.2023	08.05.2023	10.07.2023				
	Untreated		0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	0,7	0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	0			
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	0			
	Amistar Gold Max	1	0	0	0	0	0	0			
	LSD (P=.05)		-	-	-	-	-	-			
A.T/2022/009/RZO	Timing of assessment	DA-A	11 DA-A	24 DA-A	7 DA-B	21 DA-B					
	date		28.10.2022	10.11.2022	28.04.2023	12.05.2023					
	Untreated		0	0	0	0					
	CHR/F/SCORPIO 325 SC	0,7	0	0	0	0					
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0					
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0					
	CHR/F/SCORPIO 325 SC	1	0	0	0	0					
	Amistar Gold Max	1	0	0	0	0					
	LSD (P=.05)		-	-	-	-	-	-			
A.T/2022/010/RZO	Timing of assessment	DA-A/B	13 DA-A	27 DA-A	9 DA-B	27 DA-B	95 DA-B	-			
	date		17.10.2022	31.10.2022	17.04.2023	05.05.2023	12.07.2023	-			
	Untreated		0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	0,7	0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	-			
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	-			

	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	0	0	0	-
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	0	0	0	-
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	0	0	0	-
	Amistar Gold Max	1	0	0	0	0	0	0	0	0	-
	LSD (P=.05)		-	-	-	-	-	-	-	-	-
AF/22/RO/33/Ma/04	Timing of assessment	DA-A	7 DA-A	14 DA-A	36 DA-A	154 DA-A	7 DA-B	14 DA-B	28 DA-B	41 DA-B	79 DA-B
	date		16.11.2022	23.11.2022	15.12.2022	12.04.2023	19.04.2023	26.04.2023	10.05.2023	23.05.2023	30.06.2023
	Untreated		0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,7	0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	0	0	0	0
	Amistar Gold Max	1	0	0	0	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-	-	-	-
AF/22/RO/33/Pr/01	Timing of assessment	DA-A	7 DA-A	14 DA-A	71 DA-A	188 DA-A	7 DA-B	14 DA-B	28 DA-B	42 DA-B	80 DA-B
	date		12.10.2022	19.10.2022	15.12.2022	11.04.2023	18.04.2023	22.04.2023	09.05.2023	23.05.2023	30.06.2023
	Untreated		0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,7	0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0	0	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0	0	0	0	0	0
	Amistar Gold Max	1	0	0	0	0	0	0	0	0	0
	LSD (P=.05)		-	-	-	-	-	-	-	-	-
AF/22/RO/33/ZI/02	Timing of assessment	DA-A	7 DA-A	14 DA-A	50 DA-A	167 DA-A	7 DA-B	14 DA-B	28 DA-B	42 DA-B	80 DA-B

Table 2 – data from phytotoxicity trials – winter oilseed rape application spring

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %			
A.T/2021/077/RZO	Timing of assessment	DA-A	7 DA-A	26 DA-A	52 DA-A	65 DA-A
	date		22.05.2021	10.06.2021	06.07.2021	19.07.2021
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
A.T/2021/078/RZO	Timing of assessment	DA-A	9 DA-A	23 DA-A	30 DA-A	54 DA-A
	date		24.05.2021	07.06.2021	14.06.2021	08.07.2021
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
A.T.2023.001.RZO	Timing of assessment	DA-A	10 DA-A	24 DA-A	67 DA-A	
	date		11.05.2023	25.05.2023	07.07.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	

	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
A.T.2023.002.RZO	Timing of assessment	DA-A	9 DA-A	24 DA-A	54 DA-A	
	date		26.05.2023	10.06.2023	10.07.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
A.T.2023.003.RZO	Timing of assessment	DA-A	11 DA-A	19 DA-A	57 DA-A	
	date		29.05.2023	06.06.2023	14.07.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	
A.T.2023.004.RZO	Timing of assessment	DA-A	10 DA-A	21 DA-A	63 DA-A	
	date		22.05.2023	02.06.2023	14.07.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	

	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
A.T.2023.005.RZO	Timing of assessment	DA-A	7 DA-A	19 DA-A	55 DA-A	
	date		19.05.2023	31.05.2023	06.07.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	
AF/23/RO/9/Pr/01	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	25 DA-A	43 DA-A
	date		18.05.2023	25.05.2023	05.06.2023	23.06.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/RO/9/JW/02	Timing of assessment	DA-A	7 DA-A	14 DA-A	27 DA-A	47 DA-A
	date		17.05.2023	24.05.2023	06.06.2023	26.06.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0

	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/RO/9/Br/03	Timing of assessment	DA-A	7 DA-A	14 DA-A	25 DA-A	43 DA-A
	date		18.05.2023	25.05.2023	05.06.2023	23.06.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/RO/9/Ma/04	Timing of assessment	DA-A	7 DA-A	14 DA-A	28 DA-A	
	date		02.06.2023	09.06.2023	23.06.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
AF/23/RO/9/Zl/05	Timing of assessment	DA-A	7 DA-A	14 DA-A	27 DA-A	47 DA-A
	date		17.05.2023	24.05.2023	06.06.2023	26.06.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0

	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/RO/9/Go/06	Timing of assessment	DA-A	7 DA-A	14 DA-A	28 DA-A	49 DA-A
	date		29.05.2023	05.06.2023	19.06.2023	10.07.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/RO/9/Pr/07	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A	32 DA-A
	date		01.06.2023	08.06.2023	15.06.2023	26.06.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-

Table 3 – data from phytotoxicity trials – sugar beet

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %			
A.T/2021/079/BC	Timing of assessment	DA-A	7 DA-A	20 DA-A	38 DA-A	69 DA-A
	date		06.08.2021	19.08.2021	06.10.2021	07.10.2021
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6				
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
A.T/2021/080/BC	Timing of assessment	DA-A	7 DA-A	20 DA-A	38 DA-A	66 DA-A
	date		10.08.2021	23.08.2021	10.09.2021	08.10.2021
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6				
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
A.T/2023/006/BC	Timing of assessment	DA-A	7 DA-A	20 DA-A	32 DA-A	
	date		06.07.2023	19.07.2023	31.07.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,6				

	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
A.T/2023/007/BC	Timing of assessment	DA-A	7 DA-A	19 DA-A	36 DA-A	
	date		09.08.2023	21.08.2023	07.09.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,6				
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
A.T/2023/008/BC	Timing of assessment	DA-A	7 DA-A	20 DA-A	39 DA-A	
	date		04.07.2023	17.07.2023	05.08.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
A.T/2023/009/BC	Timing of assessment	DA-A	7 DA-A	14 DA-A	34 DA-A	

	date		13.07.2023	20.07.2023	09.08.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
A.T/2023/010/BC	Timing of assessment	DA-A	7 DA-A	18 DA-A	39 DA-A	
	date		07.08.2023	18.08.2023	08.09.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/JW/1	Timing of assessment	DA-A/B	7 DA-A	14 DA-A	28 DA-A	49 DA-A
	date		02.08.2023	09.08.2023	23.08.2023	13.09.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0

	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/ZI/2	Timing of assessment	DA-A	7 DA-A	14 DA-A	28 DA-A	49 DA-A
	date		17.08.2023	24.08.2023	08.09.2023	28.09.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/Or/3	Timing of assessment	DA-A	7 DA-A	22 DA-A	43 DA-A	
	date		31.08.2023	15.09.2023	06.10.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/Br/4	Timing of assessment	DA-A	7 DA-A	14 DA-A	28 DA-A	42 DA-A
	date		29.08.2023	05.09.2023	19.09.2023	03.10.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	0

	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/Pr/5	Timing of assessment	DA-A	7 DA-A	14 DA-A	32 DA-A	56 DA-A
	date		21.07.2023	28.07.2023	15.08.2023	08.09.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/Wyr/6	Timing of assessment	DA-A	7 DA-A	21 DA-A	42 DA-A	
	date		28.08.2023	11.09.2023	02.10.2023	
	Untreated		0	0	0	
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	
	CHR/F/SCORPIO 325 SC	1	0	0	0	
	Amistar Gold Max	1	0	0	0	
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/ZL/7	Timing of assessment	DA-A	7 DA-A	14 DA-A	29 DA-A	43 DA-A

	date		28.08.2023	04.09.2023	19.09.2023	03.10.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/23/BC/9/Ma/8	Timing of assessment	DA-A	7 DA-A	14 DA-A	28 DA-A	43 DA-A
	date		10.08.2023	17.08.2023	31.08.2023	15.09.2023
	Untreated		0	0	0	0
	CHR/F/SCORPIO 325 SC	0,6	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,8	0	0	0	0
	CHR/F/SCORPIO 325 SC	0,9	0	0	0	0
	CHR/F/SCORPIO 325 SC	1	0	0	0	0
	Amistar Gold Max	1	0	0	0	0
	LSD (P=.05)		-	-	-	-
AF/24/BC/29/Br/01	Timing of assessment	DA-A	19 DA-A	40 DA-A	-	-
	date		23.07.2024	13.08.2024	-	-
	Untreated		0	0	-	-
	CHR/F/SCORPIO 325 SC	0,6	0	0	-	-
	CHR/F/SCORPIO 325 SC	0,8	0	0	-	-
	CHR/F/SCORPIO 325 SC	0,9	0	0	-	-
	CHR/F/SCORPIO 325 SC	1	0	0	-	-
	Amistar Gold Max	1	0	0	-	-
	LSD (P=.05)		-	-	-	-

	LSD (P=.05)		-	-	-	-
AF/24/BC/29/Pr/02	Timing of assessment	DA-A	17 DA-A	40 DA-A	-	-
	date		26.08.2024	18.09.2024	-	-
	Untreated		0	0	-	-
	CHR/F/SCORPIO 325 SC	0,6	0	0	-	-
	CHR/F/SCORPIO 325 SC	0,8	0	0	-	-
	CHR/F/SCORPIO 325 SC	0,9	0	0	-	-
	CHR/F/SCORPIO 325 SC	1	0	0	-	-
	Amistar Gold Max	1	0	0	-	-
	LSD (P=.05)		-	-	-	-
AF/24/BC/29/ZI/03	Timing of assessment	DA-A	20 DA-A	40 DA-A	-	-
	date		23.07.2024	12.08.2024	-	-
	Untreated		0	0	-	-
	CHR/F/SCORPIO 325 SC	0,6	0	0	-	-
	CHR/F/SCORPIO 325 SC	0,8	0	0	-	-
	CHR/F/SCORPIO 325 SC	0,9	0	0	-	-
	CHR/F/SCORPIO 325 SC	1	0	0	-	-
	Amistar Gold Max	1	0	0	-	-
	LSD (P=.05)		-	-	-	-

Table 4 – data from phytotoxicity trials – winter oilseed rape applicaton autumn and spring, winter oilseed rape applicaton spring, sugar beet

Test report (1)	Testing Unit GEP (2)	Country Region (3)	Dates of trials and GS (4)	Cultivar F/G (5) N/A (6)	Experimental design Test method (7) Replicates	Remarks
A.T.2021.105.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Brzoza/ Poland	20.09.2021 25.03.2022 BBCH 14-15 BBCH 31-32	winter oilseed rape / Aganos F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 7.2
A.T.2021.106.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Kakulin / Poland	04.10.2021 19.04.2022 BBCH 14-18 BBCH 50-55	winter oilseed rape / Dominador F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.3
A.T.2021.107.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Nowa Wieś Ujska/Poland	21.09.2021 12.04.2022 BBCH 14-15 BBCH 35-39	Winter oilseed rape/Temptation F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.6
A.T.2021.108.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Jęczniki Wielkie/Poland	19.10.2021 22.04.2022 BBCH 17-19 BBCH 51-55	Winter oilseed rape/ Riccardo F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.4
A.T/2022/007/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Lusówko/Poland	13.10.2022 12.04.2023 BBCH 20-21 BBCH 50-55	Winter oilseed rape/ Drone F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.8
A.T/2022/008/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Motylewo/Poland	19.10.2022 14.04.2023 BBCH 20-25 BBCH 39-53	Winter oilseed rape/Atora F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.6
A.T/2022/009/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Sępólno Krajeńskie/Poland	17.10.2022 21.04.2023 BBCH 21-25	Winter oilseed rape/Batis F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 5.6

			BBCH 50-55			
A.T/2022/010/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Moszczenica /Poland	04.10.2022 08.04.2023 BBCH 14-15 BBCH 31-33	Winter oilseed rape / LG Auckland F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.2
AF/22/RO/33/G/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Gorzyce / Poland	15.10.2022 08.04.2023 BBCH 14-15 BBCH 31	Winter oilseed rape / Kadore F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH 6.7
AF/22/RO/33/Pr/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda / Poland	08.11.2022 11.04.2023 BBCH 17 BBCH 32	winter oilseed rape/ Alibaba F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/22/RO/33/Br/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody /Poland	15.11.2022 21.04.2023 BBCH 20 BBCH 50	winter oilseed rape /Harry F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.0
AF/22/RO/33/Ma/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Machary /Poland	09.11.2022 12.04.2023 BBCH 20 BBCH 32	winter oilseed rape / Graf F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/22/RO/33/Pr/01	SynTech Research Czech s.r.o., Horní Kounice 1, 671 40 Horní Kounice, Czech Republic	Przybroda /Poand	05.10.2022 11.04.2023 BBCH 14-15 BBCH 31-32	winter oilseed rape / Harry F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/22/RO/33/Zł/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki /Poland	26.10.2022 11.04.2023 BBCH 17-18 BBCH 31-32	winter oilseed rape / Bradley F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/22/RO/33/Go/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637	Goslawice /Poland	11.10.2022 09.04.2023 BBCH 19-29 BBCH 31-32	winter oilseed rape / Chopin F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH 6.3

	Poznań, Poland					
AF/22/RO/33/Ma/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Małujowice /Poland	17.11.2022 10.04.2023 BBCH 20-29 BBCH 50-55	winter oilseed rape / SY Ilona F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: sandy loam pH 6.8
A.T/2021/077/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Kakulin/ Poland	15.05.2021 BBCH 55-63	winter oilseed rape / LG Aviron F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: loamy sand pH 5.1
A.T/2021/078/RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Nowa Wieś Ujska/ Poland	15.05.2021 BBCH 63-64	winter oilseed rape / Atora F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: sandy loam pH 7.2
A.T.2023.001.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Lusówko/ Poland	01.05.2023 BBCH 61	winter oilseed rape / Drone F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: loamy sand pH 6.8
A.T.2023.002.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Motylewo, Ujście/ Poland	17.05.2023 BBCH 67	winter oilseed rape/ Atora F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: loamy sand pH 7.6
A.T.2023.003.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Wilkowo, Sępólno Krajeńskie/ Poland	18.05.2023 BBCH 67	winter oilseed rape/ Dominator F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: sandy loam pH 5.73
A.T.2023.004.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Moszczenica, Chojnice / Poland	12.05.2023 BBCH 62	winter oilseed rape / Riccardo F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: loamy sand pH 5.42
A.T.2023.005.RZO	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Rybowo, Gołańcz/ Poland	12.05.2023 BBCH 67	winter oilseed rape/ Kuga F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: loamy sand pH 6.58
AF/23/RO/9/Pr/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda/ Poland	11.05.2023 BBCH 61-62	winter oilseed rape / Harry F N	Randomized blocks EPP0 PP 1/135 (4)	Soil type: loamy sand pH 6.0

AF/23/RO/9/JW/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Janowiec Wielkopolski/ Poland	10.05.2023 BBCH 61-62	winter oilseed rape / Berni F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/23/RO/9/Br/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody/ Poland	11.05.2023 BBCH 65-69	winter oilseed rape/ Harry F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7
AF/23/RO/9/Ma/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Machary/ Poland	26.05.2023 BBCH 61	winter oilseed rape/ Graf F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/23/RO/9/ZI/05	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki/ Poland	10.05.2023 BBCH 63	winter oilseed rape / Bradley F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/23/RO/9/Go/06	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Gorzyce/ Poland	22.05.2023 BBCH 65	winter oilseed rape / SY Ilona F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH 6.6
AF/23/RO/9/Pr/07	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda/ Poland	25.05.2023 BBCH 69	winter oilseed rape/ Harry F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
A.T/2021/079/BC	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Modrzew, Stęszew/ Poland	30.07.2021 BBCH 39	Sugar beet / Graciana F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.1
A.T/2021/080/BC	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Suchary, Nakło nad Notecią/ Poland	03.08.2021 BBCH 39	Sugar beet / Kujavia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.5
A.T/2023/006/BC	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300	Góra/ Poland	29.06.2023 BBCH 38-39	Sugar beet / BTS 8840	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.58

	Mogilno, Poland			F N		
A.T/2023/007/BC	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Trzeciewnica, Nakło nad Notecią / Poland	02.08.2023 BBCH 49	Sugar beet / Mazovia Rh + CR F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.66
A.T/2023/008/BC	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Ostrówek, Sośno/ Poland	27.06.2023 BBCH 39	Sugar beet / Kujavia F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.51
A.T/2023/009/BC	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Sepno, Rokietnica / Poland	06.07.2023 BBCH 39	Sugar beet / Viola KWS F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 5.12
A.T/2023/010/BC	A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland	Chwiram/ Poland	31.07.2023 BBCH 49	Sugar beet / Zagłoba F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: sandy loam pH 6.8
AF/23/BC/9/JW/1	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Janowiec Wielkopolski/Poland	26.07.2023 BBCH 39	Sugar beet / Jagiellon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/23/BC/9/ZI/2	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki/ Poland	10.08.2023 BBCH 49	Sugar beet /Klara F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.0
AF/23/BC/9/Or/3	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Orłów/ Poland	24.08.2023 BBCH 49	Sugar beet /Jagiellon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: clayey sand pH 6.6
AF/23/BC/9/Br/4	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody/ Poland	22.08.2023 BBCH 49	sugar beet / Jagiellon F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.0
AF/23/BC/9/Pr/5	Poznań University of Life Sciences, Research and Education Center Gorzyń,	Przybroda/ Poland	14.07.2023 BBCH 39	Sugar beet /Kujavia F	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0

	Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland			N		
AF/23/BC/9/Wyr/6	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Wyřęba/ Poland	21.08.2023 BBCH 39	Sugar beet /SV2423 F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.7
AF/23/BC/9/ZL/7	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki/ Poland	21.08.2023 BBCH 49	Sugar beet / Jantar F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/23/BC/9/Ma/8	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Machary/ Poland	03.08.2023 BBCH 49	Sugar beet /Tradycja F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.4
AF/24/BC/29/Br/01	Poznań University of Life Sciences, Research and Education Center Złotniki, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Brody/ Poland	04.07.2024 BBCH 39	Sugar beet /Pulitzer F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.9
AF/24/BC/29/Pr/02	Poznań University of Life Sciences, Research and Education Center Złotniki, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Przybroda/ Poland	09.08.2024 BBCH 49	Sugar beet /Pulitzer F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 6.0
AF/24/BC/29/Zl/03	Poznań University of Life Sciences, Research and Education Center Złotniki, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Złotniki/ Poland	03.07.2024 BBCH 49	Sugar beet /Pulitzer F N	Randomized blocks EPPO PP 1/135 (4)	Soil type: loamy sand pH 7.0

Notes:

- (1): test report number
- (2): Trial responsible entity/ officially recognized organization
- (3): precise place of the trial followed by the country
- (4): Crop growth stage at application timing

(5): F= field trial, G=protected crop, specify
(6): N=Natural infestation, A= Artificial inoculation
(7): Test guideline used

Appendix 7 Summary of available studies: Adverse effects on beneficial organisms

None

Appendix 8 Summary of data on succeeding crop

None