

# FINAL REGISTRATION REPORT

## **Part B**

### **Section 3**

#### **Efficacy Data and Information**

Concise summary

Product code: CHR/I/ADEL 280 SC

Product name(s): ADEL 280 SC/ PYRIFOS ADE 280 SC

Chemical active substance(s):

Acetamiprid, 250 g/L

Deltamethrin, 30 g/L

Central Zone

Zonal Rapporteur Member State: Poland

#### **CORE ASSESSMENT**

(authorization)

Applicant: Innvigo Sp. z o.o.

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MS Finalisation date: 26/09/2025

## Version history

When	What
September 2021	Dossier sent for evaluation
December 2021	Updated by Applicant
July 2024	Updated by Applicant
August 2024	zRMS finalised evaluation
October 2024	Final version prepared by zRMS after Commenting period
March 2025	zRMS update
September 2025	zRMS update

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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)

The process chosen by the zRMS to transform the dRR into a RR should be explained. Options are to rewrite the document (with track change or not) or to use commenting boxes such as the following

Comments of zRMS:	Conclusions from the assessment were prepared using grey commenting boxes placed at the end of each chapter. The parts of the text amended or added by the zRMS evaluator are highlighted in grey and the parts struck off are <del>visibly marked with the grey font.</del>
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#### 3.1 Summary and conclusions of zRMS on Section 3: Efficacy (KCP 6)

##### Abstract

##### 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/I/ADEL 280 SC in PL.

CHR/I/ADEL 280 SC contains 250 g/L of the active substance acetamiprid, 30 g/L of the active substance deltamethrin and it is formulated as a suspension concentrate (SC). The plant protection product is used in oilseed rape, winter wheat, winter triticale and sugar beet as an insecticide for the control of insect pests at a dose rate 0,08 l/ha, with one postemergent application in season.

The product constitutes a new mixture on the Polish market and contained two active substances, which belong to the different IRAC groups and present different modes of action against pests. Effective insecticide resistance management (IRM) strategies have to include major points to minimize the selection of resistance to any one type of insecticide. In practice it is realized by alternations, sequences or rotations of compounds from different mode of action groups provide sustainable and effective insecticide resistance management. Taking into account above, it might be concluded that the mixture contained two active substances with different mode of action might be a good alternative to insecticide resistance management in cereals, oilseed rape and sugar beet compared to insecticides containing one or two actives already registered. What is more, another advantage of the mixture is that dose rates of both actives have been reduced in the product in comparison to solo registered products giving excellent efficacy results. There is a need to direct focus that the initially evaluated in the dossier dose rate 0,16 L/ha provided excellent benefit and controlled pest on the high level. The undeniable advantage of this mixture is also the fact that the mixture with 2 active substances means also less packaging and reducing number of operations for operators. It might be concluded that advantages of the new mixture, mentioned above might be enough justification to place CHR/I/ADEL 280 SC on the market.

No specific minimum effective dose tests are not reported. In the section 3.2.3, efficacy all doses (0,06; 0,08; 0,1; 0,12; 0,14; 0,16 L/ha and 0,08 + Asystent + 0,1 L/ha) were tested and the dose rate of 0,16 L/ha applied once a season in winter oilseed rape, winter wheat, winter triticale and sugar beet has demonstrated a good pest control and were considered as the minimum effective doses.

However, during the evaluation, the applicant changed the dose in the GAP table from 0,16 L/ha to 0,08 L/ha, explaining this change by the risk of in ecotoxicology section and asking for re-evaluation of the efficacy of the product at a maximum dose of 0,08 L/ha. It has to be underlined that the dose rate 0,08 L/ha does not constitute the minimum effective dose rate in the light of EPPO standard PP 1/225 (2) Minimum effective dose.

The applicant submitted 91 reports showing the research results into product efficacy carried out in 2019, 2020, and 2021 in PL, on cultivars of:

- winter oilseed rape (50 trials) against: ATALCO, BRVCBR, MYZUPE, CEUTQU, CEUTNA, MELIAE, CEUTPL, DASYBR
  - winter wheat (10 trials) against: MACSAV, METODOR, RHOPPA, THRISP
  - winter triticale (15 trials) against: MACSAV, RHOPPA, THRISP
  - sugar beet (16 trials) against: AFIFA, PEGOHY
- to support the registration of CHR/I/ADEL 280 SC PL.

Due to risk in ecotoxicology section, the Applicant requested for modification in dose from 0,16 L/ha to 0,08 L/ha. The dossier was evaluated for a dose of 0,08 L/ha of CHR/I/ADEL 280 SC.

It might be concluded that the post-emergence application of CHR/I/ADEL 280 SC provides benefit and controls pest on the medium level or limited the number of pest, at 0,08 l/ha dose rate against:

- ATALCO (ME), BRVCBR (E), MYZUPE (ME), CEUTQU (L), CEUTNA (L), MELIAE (ME), CEUTPL (ME), DASYBR (ME) on winter oil seed rape;
- MACSAV (ME), THRISP (ME) on winter wheat;
- MACSAV (ME), THRISP (ME) on winter triticale;
- AFIFA (ME), PEGOHY (E - for larvae stadium and L - limiting control level of 46,6% for eggs stadium of insect) on sugar beet

The number of trials presented for METODR, RHOPPA in winter wheat and for RHOPPA in winter triticale is insufficient to conclude on efficacy of the product.

~~To confirm efficacy of the product in oilseed rape it is proposed to submit post authorised 2-3 efficacy trials against BRVCBR and 2-3 efficacy trials against MYZUPE.~~

~~To confirm efficacy of the product in oilseed rape it is proposed to submit post authorised 1-2 efficacy trials against CEUTNA.~~

Reducing the product dose by half (from 0.16 L/ha to 0.08 L/ha) significantly reduced the efficacy of the product against the pests tested. Furthermore for pest control, the product at 0,08 l/ha showed much lower efficacy against all pests, than the reference products with one active substance. A mixture of 2 substances should give at least similar efficacy results to the reference product containing a single substance. The efficacy of the mixture should be even be more satisfactory than for solo active substance product. This optimum solution was only provided by the dose of 0,16 l/ha.

Reducing the product dose by half (from 0,16 L/ha to 0,08 L/ha) induces yet another problem. Reduced pesticide doses that do not provide high efficacy against pests can encourage the emergence of pest resistance. Surviving pests, over time, develop different types of resistance mechanisms that cause rapid detoxification of the active substances and further control of pests requires higher doses of insecticides or, in the worst case, the active substances become ineffective. Using the optimum dose of plant protection products for maximum reduction of pests is a key point in a resistance management strategy. This is one of the elements that is strongly emphasised in IRAC recommendations. Therefore, in ZRMS opinion, reducing the product dose by half, not giving satisfactory efficacy, will have impact on pest resistance development.

Reduced dose of the product (0,08 l/ha) ensured satisfactory efficacy only against PEGONY in sugar beet. Therefore, dose rate of 0,08 l/ha may be recommended for protection of sugar beet against PEGONY.

What is more, the risk owner has decided on the possibility of conditional authorisation of the product against BRVCBR in oilseed rape. In view of the above, the evaluator proposes to submit at least six post-authorisation efficacy trials (optimal number of trials for a new mixture: 10 trials) confirming the mean efficacy of the product above 90% against BRVCBR in oilseed rape, at a dose of 0,08 l/ha.

Taking the above into account, a positive recommendation for registration of a dose of 0,08 L/ha in oilseed rape, cereals and sugar beet against APHIFA cannot be issued.

~~The applicant provided information on resistance active substances. The presented strategy complies with the resistance management strategy recommended by IRAC.~~

CHR/I/ADEL 280 SC was safe to the crops on which it was applied as no phytotoxicity symptoms were observed in the efficacy tests. The product did not cause any negative impact on the yield of winter oil seed rape, winter wheat, winter triticale, sugar beet.

The product CHR/I/ADEL 280 SC is expected to have no negative effect on transformation processes.

No problems is going to be linked to CHR/I/ADEL 280 SC use in succeeding and adjusted crops, if product uses in accordance with the recommendations.

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/code): ADEL 280 SC/ PYRIFOS ADE 280 SC – CHR/I/ADEL 280 SC Formulation type: SC <sup>(a, b)</sup> GAP rev. , date: 2021-12-20

Active substance 1: acetamiprid Conc. of as 1: 250 g/L <sup>(c)</sup>

Active substance 2: deltamethrin Conc. of as 2: 30 g/L

Active substance 3: - Conc. of as 3: -

Safener: - Conc. of safener: - <sup>(c)</sup>

Synergist: - Conc. of synergist: - <sup>(c)</sup>

Applicant: Innvigo Sp. z o.o. Professional use: ☒

Zone(s): Central <sup>(d)</sup> Non professional use: ☐

Verified by MS: no

Field of use: insecticide

1	2	3	4	5	6	7	8	9	15	11	12	13	14	15
Use- No. (e)	Member state(s)	Crop and/ or situa- tion  (crop des- tination / purpose of crop)	F, Fn, G, Gn, Gpn or I	Pests or Group of pests controlled  (additionally: de- velopmental stages of the pest or pest group)	Application				Application rate			PHI (days)	Remarks:  e.g. g safen- er/synergist per ha (f)	ZRMs Conclu- sion
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. inter- val 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) (0401060)	F	<i>Aphids: Brevicoryne brassicae, Myzus persicae, Athalia/Athalia rosae</i>	Spray, medium sprayer	Autumn BBCH 10-21	a)1 b)1	n/a	a) 0.08 - 0.16 L/ha b) 0.08 - 0.16 L/ha	a) (0.02 kg as/ha A + 0.0024 kg as/ha D) - (0.04 kg a.s/ha A+0.0048 kg a.s/ha D) b) (0.02 kg as/ha A + 0.0024 kg as/ha D) - (0.04 kg a.s/ha A+0.0048 kg a.s/ha D)	200-300	n/a	Dose rate of 0,08 l/ha: <ul style="list-style-type: none"> <li>not recommended for <i>Myzus persicae</i>, <i>Athalia rosae</i></li> <li>conditionally accepted for <i>Brevicoryne brassicae</i> (6 efficacy trials submitted post-authorised are needed)</li> </ul>
2	PL	Winter Oilseed rape (BRSNW)	F	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i> , <i>Ceutorhynchus napi</i> , <i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i> , <i>Ceutorhynchus assimilis</i> , <i>Dasineura brassicae</i>	Spray, medium sprayer	Spring BBCH 30-70	a)1 b)1	n/a	a) 0.08 L/ha b) 0.08 L/ha	a) (0.02 kg a.s/ha A+0.0024 kg a.s/ha D) b) (0.02 kg a.s/ha A+0.0024 kg a.s/ha D)	200-300	n/a	Dose 0,08 L/ha not recommended
3	PL	Winter wheat (TRZAW)	F	<i>Aphids: Sitobion avenae</i> , <i>Metopolophium dirhodum</i> , <i>Rhopalosiphum padi</i> , <i>Thrips</i> sp.	Spray, medium sprayer	Spring BBCH 65-76	a)1 b)1	n/a	a) 0.08 L/ha b) 0.08 L/ha	a) (0.02 kg a.s/ha A+0.0024 kg a.s/ha D) b) (0.02 kg a.s/ha	200-300	n/a	Dose 0,08 L/ha not recommended

[illegible]

Minor uses according to Article 51 (interzonal uses)													
11													
12													

**Remarks table heading:**

(a) e.g. wettable powder (WP), emulsifiable concentrate (EC), granule (GR)  
(b) Catalogue of pesticide formulation types and international coding system CropLife International Technical Monograph n°2, 6th Edition Revised May 2008  
(c) g/kg or g/l

(d) Select relevant  
(e) Use number(s) in accordance with the list of all intended GAPs in Part B, Section 0 should be given in column 1  
(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.

**Remarks columns:**

1 Numeration necessary to allow references  
2 Use official codes/nomenclatures of EU Member States  
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)  
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  
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.  
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.

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  
8 The maximum number of application possible under practical conditions of use must be provided.  
9 Minimum interval (in days) between applications of the same product  
10 For specific uses other specifications might be possible, e.g.: g/m<sup>3</sup> in case of fumigation of empty rooms. See also EPPO-Guideline PP 1/239 Dose expression for plant protection products.  
11 The dimension (g, kg) must be clearly specified. (Maximum) dose of a.s. per treatment (usually g, kg or L product / ha).  
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/I/ADEL 280 SC containing two active substances: acetamiprid and deltamethrin.

CHR/I/ADEL 280 SC applies in the Central Registration Zone for the registration of in winter oilseed rape at BBCH 10-21 and BBCH 30-70, winter wheat at BBCH ~~37-75~~ 65 - 76, winter triticale at BBCH ~~37-75~~ 49-77 and sugar beet at BBCH 12-19 applied once per season at the maximum rate of 0.02 kg a.s./ha acetamiprid and 0.0024 kg a.s./ha deltamethrin per application for the control of insects.

### General information:

#### Description of the plant protection product

##### Marketing name:

product submitted to registration under three different marketing names: ADEL 280 SC/ PYRIFOS ADE 280 SC

##### Formulants content:

The information concerning ingredients of product CHR/I/ADEL 280 SC 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/I/ADEL 280 EC is to be applied in autumn:

##### winter oilseed rape

BBCH 10-21 in winter oilseed rape,  
and in spring:

##### winter oilseed rape, winter wheat, winter triticale, sugar beet:

BBCH 30-70 in winter oilseed rape,  
BBCH 65-76 in winter wheat,  
BBCH 49-77 in winter triticale,  
BBCH 12-19 in sugar beet.

The suggested dose of the product:

Used solo:

0.08 L/ha once a season in winter oilseed rape, winter wheat, winter triticale and sugar beet which are corresponding to 0.02 kg a.s./ha acetamiprid and 0.0024 kg a.s./ha deltamethrin.

CHR/I/ADEL 280 SC containing acetamiprid and deltamethrin as active substances is prepared for the use in agricultural practice as a insecticide in the form SC – suspension concentrate.

Information on the composition of product CHR/I/ADEL 280 SC 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:

acetamiprid 250 g/L

Chemical name (IUPAC): (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamidine

CA Name: (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamidine

CAS No.: 135410-20-7

*According to Acetamiprid\_RAR\_05\_Volume 3CA B-3\_2015-11-27.pdf*

Acetamiprid is neonicotinoid systemic insecticide. It is used as a foliar application to control a range of herbivorous (sucking and biting) insect pests in both outdoor and protected situations. Acetamiprid affects the insect nervous system by acting as an antagonist of the ion channel by binding to the neurotransmitter acetylcholine recognition site. Symptoms of exposure are convulsion with leg tremor and motion of wings, followed by paralysis and death. These symptoms are similar to what is observed after L-nicotine administration. Acetamiprid has translaminar activity with contact and stomach action on herbivorous insect pests. It is an agonist of the nicotinic acetylcholine receptor, affecting the synapses in the insect central nervous system. Acetamiprid belongs to the neonicotinoid insecticides and is classified under IRAC group 4A. Neurotransmission through a nicotinic acetylcholine receptor (nAChR) is initiated from the binding of the neurotransmitter acetylcholine (ACh) to the ACh recognition site on the  $\alpha$ -sub-unit, activation of its ion channel, followed by the influx of sodium ions. Acetamiprid works as an antagonist of the ion channel by binding to the ACh recognition site. It is not affected by the acetylcholinesterase which degrades the natural neurotransmitter ACh. Acetamiprid does not readily penetrate the cuticle and is therefore more active on ingestion by sucking hemipterian insects. Acetamiprid is not ionised inside the insect but when transferred into the central nervous system, it is ionised and interacts strongly with nAChR.

### Active substance:

deltamethrin 30 g/L

Chemical name (IUPAC): (S)- -cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane carboxylate

CAS Name: Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)-

*According to Deltamethrin\_RAR\_05\_Volume 3CA B-3\_2018-02-20.pdf*

Pyrethroid insecticides such as deltamethrin affect both the peripheral and central nervous systems of pest insects. Upon binding to voltage-gated sodium channels they initially stimulate nerve cells to produce repetitive discharges and eventually cause paralysis. Voltage-gated sodium are essential for the initiation and propagation of action potentials in the nervous system and other excitable cells. Insect sodium channels consists of four homologous membrane domains, each having six transmembrane spanning segments connected by intracellular and extracellular loops. After binding of deltamethrin (and pyrethroids in general) to the open stage of the sodium channels, they remain open as the insecticide impedes channel closing either by inactivation or deactivation, and the sodium channels retain the ability to conduct sodium ions, resulting in abnormal hyperexcitability. This pyrethroid-specific mode of action is phenotypically expressed as a knock-down of the pest insect. Deltamethrin and all other pyrethroids are listed as group 3A insecticides in the IRAC mode of action classification scheme, because they are supposed to be cross-resistant to each other particularly in cases of target-site mutations affecting their binding site.

**Table 3.2-1: Details of the active substances**

Active substance	Acetamiprid	Deltamethrin
Concentration (Unit: g/kg or g/L...)	250 g/L	30 g/L
Chemical group	Neonicotinoid insecticides, group 4A	Pyrethroids-Pyrethrins, group 3A

Active substance	Acetamiprid	Deltamethrin
Mode of action	Nicotinic acetylcholine receptor (nAChR) competitive modulators (4) Acetamiprid affects the insect nervous system by acting as an antagonist of the ion channel by binding to the neurotransmitter acetylcholine recognition site. Symptoms of exposure are convulsion with leg tremor and motion of wings, followed by paralysis and death. These symptoms are similar to what is observed after L-nicotine administration.	Sodium channel modulators (3) Deltamethrin is a pyrethroids insecticide and does not depend on conversion to a metabolite or degradation product to exert its effect. Pyrethroids works by preventing the transmission of nervous impulses along nerve fibres, thereby disrupting the pest's nervous system, resulting in death. Pyrethroids prevent the sodium channels from functioning so that no transmission of impulses can take place.
Biological action	insecticide	insecticide

Comments of zRMS:	<p>This report summarizes the information concerning the use of CHR/I/ADEL 280 SC, a post-emergence foliar-applied insecticide for the control of a range of insect pests used in winter oilseed rape, winter wheat, winter triticale and sugar beet. The product contains 250 g/L of the active substance acetamiprid, 30 g/L of the active substance deltamethrin and is formulated as a suspension concentrate (SC).</p> <p>The active substance acetamiprid is included in the Annex to Commission Implementing Regulation (EU) No 540/2011 containing the active substances approved for use in plant protection products under Regulation (EC) No 1107/2009 with the expiration of approval on 28/02/2033.</p> <p>According to general provisions applying to all substances listed in the Annex to commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No1107/2009 of the European Parliament and of the Council as regards the list of approved active substances. Specific provisions of Regulation (EU) No 540/2011 were as follows:</p> <p>For the implementation of the uniform principles, as referred to in Article 29(6) of Regulation (EC) No 1107/2009, the conclusions of the renewal report on acetamiprid, and in particular Appendices I and II thereof, shall be taken into account. In their overall assessment Member States shall pay particular attention to:</p> <ul style="list-style-type: none"> <li>— the risk to aquatic organisms, bees and other non-target arthropods,</li> <li>— the risk to birds and mammals,</li> <li>— the risk to consumers,</li> <li>— the risk to operators.</li> </ul> <p>Conditions of use shall include risk mitigation measures, where appropriate.</p> <p>The active substance deltamethrin is included in the Annex to Commission Implementing Regulation (EU) No 540/2011 containing the active substances approved for use in plant protection products under Regulation (EC) No 1107/2009 with the expiration of approval on 31/10/2022.</p> <p>According to general provisions applying to all substances listed in the Annex to commission Implementing Regulation (EU) No 540/2011 of 25 May 2011 implementing Regulation (EC) No1107/2009 of the European Parliament and of the Council as regards the list of approved active substances. Specific provisions of</p>
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	<p>Regulation (EU) No 540/2011 were as follows:  Only uses as insecticide may be authorised  For the implementation of the uniform principles as referred to in Article 29(6) of Regulation (EC) No 1107/2009, the conclusions of the review report on deltamethrin, and in particular Appendices I and II thereof, as finalised in the Standing Committee on Plant Health on 18 October 2002 shall be taken into account. In this overall assessment Member States:</p> <ul style="list-style-type: none"> <li>- must pay particular attention to the operator safety and must ensure that the conditions of authorisation include appropriate protective measures,</li> <li>- should observe the acute dietary exposure situation of consumers in view of future revisions of maximum residue levels,</li> <li>- must pay particular attention to the protection of aquatic organisms, bees and non-target arthropods and must ensure that the conditions of authorisation include risk mitigation measures, where appropriate</li> </ul> <p>Appendix 1 of dRR contains the list of data considered in support of the evaluation of CHR/I/ADEL 280 SC.  All intended uses for CHR/I/ADEL 280 SC are contained in the table 3.1-1 (GAP).</p>
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### Description of the plant protection product

Formulation of use:

SC – Suspension concentrate

CHR/I/ADEL 280 SC containing 250 g/L of acetamiprid and 30 g/L of deltamethrin as active substances is prepared for the use in agricultural practice as a insecticide in the form SC – suspension concentrate.

CHR/I/ADEL 280 EC is to be applied in autumn:

**winter oilseed rape**

BBCH 10-21 in winter oilseed rape,

and in spring:

**winter oilseed rape, winter wheat, winter triticale, sugar beet:**

BBCH 30-70 in winter oilseed rape,

BBCH 65-76 in winter wheat,

BBCH 49-77 in winter triticale,

BBCH 12-19 in sugar beet.

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

Uses		Member State	Currently registered rate(s)		Requested rate(s)		Comments / Other relevant details on GAPs
Crop(s)	Target(s)		max. rate per appl	max. total rate per crop/season	max. rate per appl	max. total rate per crop/season	
winter oilseed rape	peach-potato aphid, cabbage aphid, turnip sawfly, Athalia sp., cabbage gall weevil, brassica pod midge, cabbage seedstalk curculio, blossom beetle, rape stem weevil	PL, CZ	n/a	n/a	0.08 L/ha	0.08 L/ha	-

winter wheat	English grain aphid, Thrips sp., grain aphid, apple bud aphid	PL, CZ	n/a	n/a	0.08 L/ha	0.08 L/ha	-
winter triticale	English grain aphid, Thrips sp., apple bud aphid	PL, CZ	n/a	n/a	0.08 L/ha	0.08 L/ha	-
sugar beet	Aphis sp., beet fly	PL, CZ	n/a	n/a	0.08 L/ha	0.08 L/ha	-

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.**

Winter oilseed rape

EPPO code	Scientific name	Common name*
ATALSP/ATALCO	<i>Athalia sp./Athalia rosae</i>	Athalia sp./turnip sawfly
BRVCBR	<i>Brevicoryne brassicae</i>	cabbage aphid
MYZUPE	<i>Myzus persicae</i>	peach-potato aphid
CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pal-lidactylus</i>	cabbage seedstalk curculio
CEUTNA	<i>Ceutorhynchus napi</i>	rape stem weevil
MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	blossom beetle
CEUTPL	<i>Ceutorhynchus assimilis</i>	cabbage gall weevil
DASYBR	<i>Dasineura brassicae</i>	Brassica pod midge

\* optional

Winter wheat

EPPO code	Scientific name	Common name*
MACSAV	<i>Sitobion avenae</i>	English grain aphid
THRISP	<i>Thrips sp.</i>	Thrips sp.
METODR	<i>Metopolophium dirhodum</i>	grain aphid
RHOPPA	<i>Rhopalosiphum padi</i>	apple bud aphid

\* optional

Winter triticale

EPPO code	Scientific name	Common name*
MACSAV	<i>Sitobion avenae</i>	English grain aphid
THRISP	<i>Thrips sp.</i>	Thrips sp.
RHOPPA	<i>Rhopalosiphum padi</i>	apple bud aphid

\* optional

Sugar beet

EPPO code	Scientific name	Common name*
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APHISP/ APHIFA	<i>Aphis sp./Aphis fabae</i>	Aphis sp./ bean aphid
PEGOHY	<i>Pegomya hyoscyami</i>	beet fly

\* optional

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

Winter oilseed rape

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
winter oilseed rape	PL, <del>CZ</del>	-	<i>Athalia sp./Athalia rosae</i>	-	PL, <del>CZ</del>
			<i>Brevicoryne brassicae</i>	-	PL, <del>CZ</del>
			<i>Myzus persicae</i>	-	PL, <del>CZ</del>
			<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i> ,	PL, <del>CZ</del>	-
			<i>Ceutorhynchus napi</i>	-	PL, <del>CZ</del>
			<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	PL, <del>CZ</del>	-
			<i>Ceutorhynchus assimilis</i>	-	PL, <del>CZ</del>
			<i>Dasineura brassicae</i>	PL, <del>CZ</del>	-

Winter wheat

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
winter wheat	PL, <del>CZ</del>	-	<i>Sitobion avenae</i>	-	PL, <del>CZ</del>
			<i>Thrips sp.</i>	-	PL, <del>CZ</del>
			<i>Metopolophium dirhodum</i>	-	PL, <del>CZ</del>
			<i>Rhopalosiphum padi</i>	-	PL, <del>CZ</del>

Winter triticales

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
winter triticales	PL, <del>CZ</del>	-	<i>Sitobion avenae</i>	PL, <del>CZ</del>	-
			<i>Thrips sp.</i>	-	PL, <del>CZ</del>
			<i>Rhopalosiphum padi</i>	-	PL, <del>CZ</del>

Sugar beet

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
sugar beet	PL, <del>CZ</del>	-	<i>Aphis sp./Aphis fabae</i>	PL, <del>CZ</del>	-
			<i>Pegomya hyoscyami</i>	PL, <del>CZ</del>	-

Comments of zRMS: All crops and pests mentioned in the table 3.2-5 are considered major in PL.

## 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 91 trials in total (winter oilseed rape 50 trails, winter wheat 10 trials, winter triticale 15 trials, sugar beet 16 trials) were carried out in 2019, 2020 and 2021 (in winter oilseed rape – autumn application in 2019 and 2020, in winter oilseed rape – spring application, winter wheat, winter triticale and sugar beet in 2020 and 2021) in Poland in the North-East EPPO zone within the Central registration zone to evaluate the efficacy of applied at the maximum rate of 0.02 kg a.s./ha acetamiprid and 0.0024 kg a.s./ha deltamethrin per application for the control of insects in winter oilseed rape, winter wheat, winter triticale and sugar beet (Table 3.2 6). Trials were conducted in the main winter oilseed rape, winter wheat, winter triticale and sugar beet growing areas in the North-East EPPO zone in Poland.

**Table 3.2-6: Presentation of trials efficacy trials**

Winter oilseed rape in autumn 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 post-emergence	<i>Myzus persicae</i>	Poland	2019	E	2 (2)	-	GEP	-
	<i>Myzus persicae</i>	Poland	2020	E	2(2)	-	GEP	-
	TOTAL	-	2019-2020	-	4(4)	-	-	-
winter oilseed rape post-emergence	<i>Brevicoryne brassicae</i>	Poland	2019	E	1(1)	-	GEP	-
	<i>Brevicoryne brassicae</i>	Poland	2020	E	3(3)	-	GEP	-
	TOTAL	-	2019-2020	-	4(4)	-	-	-
winter oilseed rape post-emergence	<i>Athalia</i> sp./ <i>Athalia rosae</i>	Poland	2019	E	2 (2)	-	GEP	-
	<i>Athalia</i> sp./ <i>Athalia rosae</i>	Poland	2020	E	6(6)	-	GEP	-
	TOTAL	-	2019-2020	-	8(8)	-	-	-
TOTAL	16	-	2019-2020	-	16(16)	-	-	-

\* 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 in 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 post-emergence	<i>Ceutorhynchus assimilis</i>	Poland	2020	E	2(2)	-	GEP	-
	<i>Ceutorhynchus assimilis</i>	Poland	2021	E	6(6)	-	GEP	-
	TOTAL	-	2020-2021	-	8(8)	-	-	-
winter oilseed rape post-emergence	<i>Dasineura brassicae</i>	Poland	2020	E	2(2)	-	GEP	-
	<i>Dasineura brassicae</i>	Poland	2021	E	5(5)	-	GEP	-
	TOTAL	-	2020-2021	-	7(7)	-	-	-
winter oilseed rape post-emergence	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	Poland	2020	E	2(2)	-	GEP	-
	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	Poland	2021	E	6(6)	-	GEP	-
	TOTAL	-	2020-2021	-	8(8)	-	-	-
winter oilseed rape post-emergence	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i> ,	Poland	2020	E	2(2)	-	GEP	-
	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	Poland	2021	E	8(8)	-	GEP	-
	TOTAL	-	2020-2021	-	10(10)	-	-	-
winter oilseed rape post-emergence	<i>Ceutorhynchus napi</i>	Poland	2020	E	1(1)	-	GEP	-
	<i>Ceutorhynchus napi</i>	Poland	2021	E	8(8)	-	GEP	-
	TOTAL	-	2020-2021	-	9(9)	-	-	-
TOTAL	34	-	2020-2021	-	34(42)	-	-	-

\* 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 wheat

Winter wheat								
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 wheat post-emergence	<i>Sitobion avenae</i>	Poland	2020	E	2(2)	-	GEP	-
	<i>Sitobion avenae</i>	Poland	2021	E	6(6)	-	GEP	-
	TOTAL	-	2020-2021	-	8(8)	-	-	-
winter wheat post-emergence	<i>Thrips</i> sp.	Poland	2020	E	4(4)	-	GEP	-
	<i>Thrips</i> sp.	Poland	2021	E	2(2)	-	GEP	-
	TOTAL	-	2020-2021	-	6(6)	-	-	-
winter wheat post-emergence	<i>Metopolophium dirhodum</i>	Poland	2021	E	1(1)	-	GEP	-
	TOTAL	Poland	2021	-	1(1)	-	-	-
winter wheat post-emergence	<i>Rhopalosiphum padi</i>	Poland	2021	E	1(1)	-	GEP	-
	TOTAL	Poland	2021	-	1(1)	-	-	-
TOTAL	14	-	2020-2021	-	14(16)	-	-	-

\* 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 triticales

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 triticales post-emergence	<i>Sitobion avenae</i>	Poland	2020	E	2(2)	-	GEP	-
	<i>Sitobion avenae</i>	Poland	2021	E	5(5)	-	GEP	-
	TOTAL	-	2020-2021	-	7(7)	-	-	-
winter triticales post-emergence	<i>Thrips</i> sp.	Poland	2020	E	2(2)	-	GEP	-
	<i>Thrips</i> sp.	Poland	2021	E	6(6)	-	GEP	-
	TOTAL	-	2020-2021	-	8(8)	-	-	-
winter triticales post-emergence	<i>Rhopalosiphum padi</i>	Poland	2021	E	1(1)	-	GEP	-
	TOTAL	-	2021		1(1)	-	-	-

TOTAL	15	-	2020-2021	-	15(16)	-	-	-
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\* 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.

#### 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 post-emergence	<i>Aphis</i> sp./ <i>Aphis fabae</i>	Poland	2020	E	2(2)	-	GEP	-
	<i>Aphis</i> sp./ <i>Aphis fabae</i>	Poland	2021	E	6(6)	-	GEP	-
	TOTAL	-	2020-2021	-	8(2)	-	-	-
sugar beet post-emergence	<i>Pegomya hyoscyami</i>	Poland	2020	E	2(2)	-	GEP	-
	<i>Pegomya hyoscyami</i>	Poland	2021	E	6(6)	-	GEP	-
	TOTAL	-	2020-2021	-	8(8)	-	-	-
TOTAL	14	-	2020-2021	-	14(14)	-	-	-

\* 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.

**Table 3.2-7: Presentation of reference standards used in trials efficacy trials**

Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorisation number	Active substance(s)	Formulation		Registered application rate <sup>(3)</sup>	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
winter oilseed rape	Los Ovados 200 SE	Poland	R-67/2018d; R-28/2017 07.03.2017	acetamiprid	SE - suspension	200 g/L	0.25 L/ha	0.25 L/ha	-
	Asystent+		R-67/2018d; R-28/2017 07.03.2018	polyether modified trisiloxane non-ionic humidifier	OL	10-15% 10-15%	0.05-0.1 L/ha	0.1 L/ha	-
	Decis Mega 50 EW	Poland	R-369/2016d; R-9/2012 12.01.2012	deltamethrin	EW - emulsion, oil in water	50 g/L	0.15 L/ha	0.15 L/ha	-

	Inazuma 130 WG	Poland	R - 211/2019d; R - 83/2016 31.03.2016	acetamiprid lambda-cyhalothrin	WG - water-dispersible granules	100 g/L 30 g/L	0.16-0.30 kg/ha	0.2 kg/ha	-
winter wheat	Decis Mega 50 EW	Poland	R-369/2016d; R-9/2012 12.01.2012	deltamethrin	EW - emulsion, oil in water	50 g/L	0.1-0.125 L/ha	0.125 L/ha	-
	Fastac Active 50 ME	Poland	R-416/2018d; R-52/2014 09.04.2014	alpha-cypermethrin	ME - microemulsion	50 g/L	0.25-0.3 L/ha	0.3 L/ha	-
winter triticale	Decis Mega 50 EW	Poland	R-369/2016d; R-9/2012 12.01.2012	deltamethrin	EW - emulsion, oil in water	50 g/L	0.1-0.125 L/ha	0.125 L/ha	-
	Fastac Active 50 ME	Poland	R-416/2018d; R-52/2014 09.04.2014	alpha-cypermethrin	ME - microemulsion	50 g/L	0.25-0.3 L/ha	0.3 L/ha	-
sugar beet	Decis Mega 50 EW	Poland	R-369/2016d; R-9/2012 12.01.2012	deltamethrin	EW - emulsion, oil in water	50 g/L	0.1-0.2 L/ha	0.2 L/ha	-

- (1) only on use(s) applied for (with the test product).  
(2) e.g. WP (wetttable 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/I/ADEL 280 SC were not carried out because this insecticide contains acetamiprid and deltamethrin which are a well-known active substance that has been used for many years in agricultural practice.

No specific studies were conducted to fill this data point.

#### Table 3.2-8: Efficacy of active substance components in test product – not applicable

Not applicable

#### Table 3.2-9: Percentage of control of the different ratios at timing of assessment (e.g. 10 to 14 days after application).- not applicable

Not applicable

#### Summary and conclusions on the preliminary trials

Not applicable

Comments of zRMS:	Preliminary tests have not been reported. The Applicant did not provide justification for potential advantages of the new mixture either. The active substances acetamiprid and deltamethrin have well been known and used in
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	<p>many authorised products with a known range of action.</p> <p>Nevertheless, the product constitutes a new mixture on the Polish market and according to the EPPO standard PP 1/306 (1) General principles for the development of co-formulated mixtures of plant protection products, requires justification for using mixtures from the point of view of efficacy.</p> <p>Two substances contained in the product, have different mode of action (no overlapping activity), belong to the different IRAC groups and present different modes of action against pests. Acetamiprid is neonicotinoid systemic insecticide, has translaminar activity with contact and stomach action on insect pests. It is an agonist of the nicotinic acetylcholine receptor, affecting the synapses in the insect central nervous system. Acetamiprid belongs to the neonicotinoid insecticides and is classified under IRAC group 4A. On the other hand, Deltamethrin is a non-systemic insecticide which acts on the insect by contact and ingestion. Deltamethrin affect both the peripheral and central nervous systems of pest insects. Upon binding to voltage-gated sodium channels they initially stimulate nerve cells to produce repetitive discharges and eventually cause paralysis. Deltamethrin is classified as group 3A by the IRAC. Both actives are generally fast acting what is key point in the resistance management strategy. Effective insecticide resistance management (IRM) strategies have to include major points to minimize the selection of resistance to any one type of insecticide. In practice it is realized by alternations, sequences or rotations of compounds from different mode of action groups provide sustainable and effective insecticide resistance management.</p> <p>Taking into account above, it might be concluded that the mixture contained two active substances with different mode of action might be a good alternative to insecticide resistance management in cereals, oilseed rape and sugar beet compared to insecticides containing one or two actives already registered.</p> <p>What is more, another advantage of the mixture is that dose rates of both actives have been reduced in the product in comparison to solo registered products giving excellent efficacy results. There is a need to direct focus that the initially evaluated in the dossier dose rate 0,16 L/ha, which constituted the minimum effective dose rate (for more information on minimum effective dose, please see section 3.2.2 and 3.2.3) in terms of efficacy, provided excellent benefit and controled pest on the high level against:</p> <ul style="list-style-type: none"> <li>• ATALCO (E), BRVCBR (E), MYZUPE (E), CEUTQU (M), CEUTNA (M), MELIAE (E), CEUTPL (E larvae and eggs), DASYBR (E) on winter oil seed rape comparable or better with standard products: Los Ovados 200 SE + Asystent, Decis Mega 50 EW, Inazuma 130 WG;</li> <li>• MACSAV (E), METODOR (E), RHOPPA (E), THRISP (E) on winter wheat comparable or better with standard products: Decis Mega 50 EW and Fastac Active 50 ME;</li> <li>• MACSAV (E), RHOPPA (E), THRISP (E) on winter tritcale comparable or better with standard product Decis Mega 50 EW;</li> <li>• APHIFA (E), PEGOHY (E - for larvae stadium and L - limitatig control level of 60% for egss stadium of insect) on sugar beet comparable or better with standard product Decis Mega 50 EW.</li> </ul> <p>It is possible to assume that excellent performance of two actives substanc-</p>
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	<p>es in the mixture, against more presented pests, demonstrate lack of antagonism of these two active substances in the product.</p> <p>The undeniable advantage of this mixture is also the fact that the mixture with 2 active substances means also less packaging and reducing number of operations for operators.</p> <p>To sum up, it might be concluded that advantages of the new mixture, mentioned above might be enough justification to place CHR/I/ADEL 280 SC on the market.</p>
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### 3.2.2 Minimum effective dose tests (KCP 6.2)

No specific studies were conducted to fill this data point.

On the basis of information included in KCP point 3.2.3 the assessment of efficacy and phytotoxicity trials in KCP point 3.2.3 of insecticide CHR/I/ADEL 280 SC in winter oilseed rape, winter wheat, winter triticale and sugar beet the minimum effective dose of product CHR/I/ADEL 280 SC used is:

Used solo:

0.08 L/ha once a season in winter oilseed rape, winter wheat, winter triticale and sugar beet which are corresponding to 0.02 kg a.s./ha acetamiprid and 0.0024 kg a.s./ha deltamethrin.

The minimum effective trials were not conducted.

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

Not applicable

**Table 3.2-10: Minimum effective dose. Efficacy of product at proposed label rate, at X% and Y% dose rates on target 1 at assessment timing against “Crop(s) 1 AND/OR Target(s) 1”.**

No specific studies were conducted to fill this data point.

#### Crop(s) 2 AND/OR Target(s) 2

Not applicable

#### Summary and conclusions on the minimum effective dose

Not applicable

Comments of zRMS:	<p>No specific minimum effective dose tests are not reported. In the assessment of efficacy and phytotoxicity trials the following dose rates were tested: 0,06; 0,08; 0,1; 0,12; 0,14; 0,16 L/ha and 0,08 + Asystent + 0,1 L/ha. In the section 3.2.3, efficacy all doses were tested and the dose rate of <u>0,16 L/ha</u> applied once a season in winter oilseed rape, winter wheat, winter triticale and sugar beet has demonstrated a good pest control and were considered as the <u>minimum effective doses</u>.</p> <p>However, during the evaluation, the applicant the dose in the GAP table from 0,16 L/ha to 0,08 L/ha, explaining this change by the risk of in ecotoxicology section and asking for re-evaluation of the efficacy of the product at a maximum dose of 0,08 L/ha. It has to be underlined that the dose rate 0,08 L/ha does not constitute the minimum effective dose rate in the light of EPPO standard PP 1/225 (2) Min-</p>
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	imum effective dose. More information, please see section 3.2.3. <del>Due to risk, the Applicant requested for modification in dose from 0,16 L/ha to 0,08 L/ha.</del> The dossier was re-evaluated for a dose of 0,08 L/ha.
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### 3.2.3 Efficacy tests (KCP 6.2)

#### Materials and methods

The applicant submitted 91 reports (in total) showing the results in research into product efficacy carried out in 2019 in winter oilseed rape (autumn application - 4 trials), in 2020 in winter oilseed rape (spring application - 7 trials, autumn application – 12 trials), winter wheat (4 trials), winter triticale (3 trials) and in sugar beet (4 trials) and in 2021 in winter oilseed rape (spring application - 27 trials), winter wheat (6 trials), winter triticale (12 trials) and in sugar beet (12 trials). List of these reports is contained in Appendix 1.

#### Site

Trials were conducted in different regions in Poland where winter oilseed rape, winter wheat, winter triticale and sugar beet 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 studies on insecticide CHR/I/ADEL 280 SC were performed in 2019 by:

- Institute of Plant Protection – National Research Institute, Sońnicowice Branch Office, ul. Gliwicka 29, 44-153 Sońnicowice, Poland
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań; Poland

Efficacy studies on insecticide CHR/I/ADEL 280 SC were performed in 2020 by:

- Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań; Poland
- SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Institute of Plant Protection – National Research Institute, Sońnicowice Branch Office, ul. Gliwicka 29, 44-153 Sońnicowice, Poland

Efficacy studies on insecticide CHR/I/ADEL 280 SC were performed in 2021 by:

- Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań; Poland
- SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Institute of Plant Protection – National Research Institute, Sońnicowice Branch Office, ul. Gliwicka 29, 44-153 Sońnicowice, Poland
- PerfectBAD Justyna Rezmerska-Piętka, ul. Przytargowa 4, 99-412 Kiernozia

#### Experimental details

The efficacy trials were designed, conducted and reported according to 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 1/233(1) *Athalia* r, *Plutella* x. and *Autographa* g. on arable Brassicaceae
- PP 1/228(2) Aphids on beet
- PP 1/229(1) Aphids on leguminous crops
- PP 1/230(1) Aphids on potato
- PP 1/20(3) Aphids on cereals
- PP 1/85(3) Thrips on outdoor crops
- PP 1/209(2) *Pegomya* spp. on beet and spinach
- PP 1/24(2) Aphids on potato, sugar beet, pea, broad bean and other vegetables
- PP 1/107(3) *Ceutorhynchus assimilis*
- PP 1/220(1) *Dasineura brassicae*
- PP 1/178(3) *Meligethes aeneus* on rape
- PP 1/219(1) *Ceutorhynchus napi* and *C. pallidactylus* (quadridens) in OSR
- PP1/237(1) Thrips on cereals

#### Assessment methods

##### Statistical Analysis

Statistical calculations were performed using variance analysis and comparing the results using the Duncan test with the significance level of 0.05.

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 2020.1 software.

Software for analysis of the results was ARM Revision 2017.4 from Gylling Data Management. Data were analysed using analysis of variance (ANOVA) on untransformed data and on transformed ones when the Bartlett's test indicated so. If transformation did not improve the distribution, original values were used and therefore significant differences reported should be interpreted with caution. The probability of no significant differences occurring between treatment means was calculated as the F probability value (Treatment Prob(F)). Student-Newman-Keuls (S-N-K) tests were applied when treatment differences were identified on the basis of the ANOVA test. Mean comparison performed only when AOV Treatment P(F) is significant at level selected. Results obtained were indicated by a letter-treatment means with no letters in common are significantly different in accordance with a S-N-K conducted at a 95% confidence level. Where data have been transformed, letters are included in the transformed data.

##### Assessment of efficacy

Trial was performed according to the Principles of Good Experimental Practice EPPO PP1/152(4):2012 "Design and analysis of efficacy evaluation trials" and PP1/181(4):2012 "Conduct and reporting of efficacy evaluation trials, including good experimental practice").

The assessment of efficacy in the treated plots was made in relation to the untreated plot on an overall plot basis (scale 0-100 %, 0 % =no efficacy). The assessment date was determined by the speed of action and period of efficacy of the test items.

The number of *Athalia rosae* larvae was counted on 25 previously marked plants, randomly selected diagonally across each plot. The damage on the leaves was recorded as a percentage of the affected leaf area.

The number of aphids was counted on 25 pre-marked plants (5 plants in 5 places), randomly selected on each plot.

The number of *Ceutorhynchus* larvae was counted on 20 randomly selected plants in each plot, by cutting the stems and counting the number of larvae and holes going outwards in each of the analyzed plants.

Based on the data collected during the assessment, the effectiveness of *Ceutorhynchus* control was determined by comparing the average number of larvae in stems taken from plots treated with insecticides with respect to plots where no insecticides were applied during the trial. An additional parameter assessing the effectiveness of the tested solutions was a comparison of the incidence of stems in which the effects of feeding the pest in question were recorded.

The number of *Meligethes aeneus* beetles was counted 50 main shoots selected at random from the centre of each plot.

The number of *Ceutorhynchus assimilis* beetles was counted on 20 randomly selected plants on each plot and comparing the number of pests from the plots treated with insecticides to the results recorded on untreated plots where no insecticides were used during the whole trial.

The number of *Ceutorhynchus assimilis* larvae was counted on 10 plants were randomly selected on each plot, on which the occurrence of larvae and holes in 10 pods of each plant were assessed.

Immediately before the application, 25 plants were marked on each plot, on which the pods affected by feeding on *Dasineura brassicae* larvae were counted and removed.

A similar procedure was also repeated on the marked plants during the next assessments. On the marked plants the infected pods was re-counted and removed.

Immediately before the application, 25 plants were marked on each plot, on which the pods affected by feeding on *Dasineura brassicae* larvae were counted and removed.

A similar procedure was also repeated on the marked plants during the next assessments. On the marked plants the infected pods was re-counted and removed.

Before application, pests were counted in 5 places on 5 randomly selected plants. The effectiveness of the test and reference product against *Thrips* sp. and *Sitobion avenae* was assessed by counting individuals on previously marked plants, comparing the results on plots treated with insecticides with the results obtained from the same before application. The Henderson-Tilton test was used to evaluate the effectiveness. The results are presented as the percentage of failures. The results were presented on a scale of 0-100, where: 0 - no effectiveness, 100 - complete destruction of the pest.

The number of aphids was counted on 25 pre-marked plants (5 plants in 5 places), randomly selected on each plot. The effectiveness of particular insecticidal solutions was determined by comparing the number of aphids on plots treated with insecticides to the number of aphids recorded on control objects, where no insecticides were applied during the trial.

The number of eggs of *Pegomya hyoscyami* and mines was counted on 25 randomly selected plant on each plot (5 plants in 5 places). The damage on the leaves was recorded as a percentage of the affected leaf area.

#### 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).

The phytotoxicity of the test and reference product was assessed by visually assessing the intensity of chlorosis, necrosis, leaf curl, reduction of plant turgor, etc. found on the general surfaces of the treated plots and by comparing each treated plot with the untreated plot. The assessment was made directly on the plantation. The results were presented on a scale of 0-100, where: 0 - no phytotoxicity, 100 - complete destruction of plants.

Each treated plot is compared with an untreated plot and % phytotoxicity is estimated. Frequency and severity of symptoms should be estimated (scored referring to a scale that should be described). Use a scale 0-100% with 0% is no symptoms and 100% is the organ totally affected by the symptoms

#### Harvest

A plot combine for intermixing-free grain-harvest in field trials was used for harvesting the centre of the plot. The total yield is given in unit/ha adjusted to a fixed moisture content.

Sample for each plots was analyzed on the grain analyzer: Aquamatic 5200 Perten; Inframatic 8800.

Beets were harvested by hand. 60 beet roots were harvested from the two central rows. The samples for each plots were analyzed for %sugar content and K, N and Na content.

#### Applications methods and rates

The applications were carried out by:

- plot sprayer type WACH-4, T-Boom BACCAI, plot sprayer BICSPR in winter oilseed rape,
- T-BOOM – BACCAI in winter wheat,
- T-BOOM – BACCAI, plot sprayer – SPRBIC in winter triticale and sugar beet.

Tested insecticide was applied at the growth stage in winter oilseed rape, winter wheat, winter triticale, sugar beet:

#### winter oilseed rape

BBCH 10-21 in winter oilseed rape,

and in spring:

#### winter oilseed rape, winter wheat, winter triticale, sugar beet:

BBCH 30-70 in winter oilseed rape,

BBCH 65-76 in winter wheat,

BBCH 49-77 in winter triticale,

BBCH 12-19 in sugar beet.

The product CHR/I/ADEL 280 SC has been used:

in winter oilseed rape at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in winter wheat at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in winter triticale at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in sugar beet at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

Los Ovados 200 SE + Asystent+ and Decis Mega 50 EW were used as a reference product in winter oilseed rape in autumn application.

Los Ovados 200 SE + Asystent+, Decis Mega 50 EW and Inazuma 130 WG were used as a reference product in winter oilseed rape in spring application.

Decis Mega 50 EW and Fastac Active 50 ME were used as a reference product in winter wheat.

Decis Mega 50 EW was used as a reference product in winter triticale and sugar beet.

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

#### Experiment pattern:

##### Winter oilseed rape in autumn application

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.80	A	BBCH 10-21
3	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 10-21
4	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 10-21
	Asystent+	0.10			

5	CHR/I/ADEL 280 SC	0.10	28.00	A	BBCH 10-21
6	CHR/I/ADEL 280 SC	0.12	33.60	A	BBCH 10-21
7	CHR/I/ADEL 280 SC	0.14	39.20	A	BBCH 10-21
8	CHR/I/ADEL 280 SC	0.16	45.00	A	BBCH 10-21
9	Los Ovados 200 SE	0.25	50.00	A	BBCH 10-21
	Asystent+	0.10			
10	Decis Mega 50 EW	0.15	7.50	A	BBCH 10-21

#### Winter oilseed rape in spring application

No.	Name	Rate (L, kg/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.8	A	BBCH 30-70
3	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 30-70
4	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 30-70
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.0	A	BBCH 30-70
6	CHR/I/ADEL 280 SC	0.12	33.6	A	BBCH 30-70
7	CHR/I/ADEL 280 SC	0.14	39.2	A	BBCH 30-70
8	CHR/I/ADEL 280 SC	0.16	45.0	A	BBCH 30-70
9	Los Ovados 200 SE	0.25	50.0	A	BBCH 30-70
	Asystent+	0.10			
10	Decis Mega 50 EW	0.1-0.15	7.5	A	BBCH 30-70
11	Inazuma 130 WG	0.20	26.0	A	BBCH 30-70

#### Winter wheat

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.80	A	BBCH 75-76
3	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 75-76
4	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 75-76
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.00	A	BBCH 75-76
6	CHR/I/ADEL 280 SC	0.12	33.60	A	BBCH 75-76
7	CHR/I/ADEL 280 SC	0.14	39.20	A	BBCH 75-76
8	CHR/I/ADEL 280 SC	0.16	44.80	A	BBCH 75-76
9	Decis Mega 50 EW	0.13	6.25	A	BBCH 75-76
10	Fastac Active 50 ME	0.30	15.00	A	BBCH 75-76

#### Winter triticale

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
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1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.8	A	BBCH 49-77
3	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 49-77
4	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 49-77
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.0	A	BBCH 49-77
6	CHR/I/ADEL 280 SC	0.12	33.6	A	BBCH 49-77
7	CHR/I/ADEL 280 SC	0.14	39.2	A	BBCH 49-77
8	CHR/I/ADEL 280 SC	0.16	44.8	A	BBCH 49-77
9	Decis Mega 50 EW	0.13	6.25	A	BBCH 49-77
10	Fastac Active 50 ME	0.30	15.00	A	BBCH 49-77

#### Sugar beet

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.8	A	BBCH 12-19
3	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 12-19
4	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 12-19
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.0	A	BBCH 12-19
6	CHR/I/ADEL 280 SC	0.12	33.6	A	BBCH 12-19
7	CHR/I/ADEL 280 SC	0.14	39.2	A	BBCH 12-19
8	CHR/I/ADEL 280 SC	0.16	44.8	A	BBCH 12-19
9	Decis Mega 50 EW	0.20	10.0	A	BBCH 12-19

## Details of experiments

### Winter oilseed rape in autumn application in 2019

Report code	ILRzo-20-46	A.T/2019/085/RZO	A.T/2019/086/RZO	AI/19/RO/27/ZI/ADEL
Location	Sośnicowice, Poland	Wronczyn, Poland	Wronczyn, Poland	Złotniki, Poland
Plant/cultivar	winter oilseed rape/Visby	winter oilseed rape/ Dominator	winter oilseed rape/ Dominator	winter oilseed rape/Harry
Seeding date	24.08.2019	23.08.2019	23.08.2019	26.08.2019
Seeding rate	3.1 kg/ha	2.7 kg/ha	2.7 kg/ha	3.24 kg/ha
Forecrop	winter wheat	winter triticale	winter triticale	spring triticale
Type of sprayer	plot sprayer type WACH-4	T-Boom BACCAI	T-Boom BACCAI	plot sprayer BICSPR
Date of treatment	04.10.2019	26.09.2019	07.11.2019	15.10.2019
Plant development phase	BBCH 14-15	BBCH 14-16	BBCH 17-21	BBCH 15-17
Soil type	sandy loam	loamy sand	loamy sand	loamy sand
Soil pH	6.2	5.9	5.9	6.4
Water	300 L/ha	200 L/ha	300 L/ha	200 L/ha

### Winter oilseed rape in autumn application in 2020

Report code I	A.T/2020/11 6/RZO	A.T/2020/11 7/RZO	A.T/2020/11 8/RZO	A.T/2020/11 9/RZO	A.T/2020/12 0/RZO	A.T/2020/12 1/RZO	AI/20/RO/36 /Pr/1	AI/20/RO/36 /ZI/2	AI/20/RO/36 /Br/3	4I/2021	5I/2021	6I/2021
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<b>Location</b>	Batorowo/ Poland	Duża Cer- kwica/ Po- land	Stare Młodo- chowo/ Po- land	Lusówko/ Poland	Suchary/ Poland	Stare Mło- dowo/ Poland	Przybroda/ Poland	Złotniki/ Poland	Brody/ Po- land	Sosnicowice/ Poland	Lany Wielkie / Poland	Lany Wielkie / Poland
<b>Plant /cultivar</b>	winter oilseed rape/ ES Cesario	winter oilse- ed rape/ Kuga	winter oilse- ed rape/ Hamilton	winter oilse- ed rape/ Addition	winter oilse- ed rape/ Dominator	winter oilse- ed rape/ Hamilton	winter oilse- ed rape/ Harry	winter oilseed rape/ Graf F1	winter oilse- ed rape/ Berny	winter oilse- ed rape/ Alibaba	winter oilse- ed rape/ Visby	winter oilse- ed rape/ Visby
<b>Seeding date</b>	25.08.2020	28.08.2020	10.09.2020	29.08.2020	24.08.2020	20.08.2020	24.08.2020	25.08.2020	21.08.2020	25.08.2020	25.08.2020	25.08.2020
<b>Seeding rate</b>	40 S/m2	2.5 kg/ha	1.8 kg/ha	42 S/ha	2.8 kg/ha	1.8 kg/ha	2.8 kg/ha	3.3 kg/ha	3.2 kg/ha	4.1 kg/ha	2.9 kg/ha	2.9 kg/ha
<b>Forecrop</b>	winter wheat	winter wheat	winter rye	winter wheat	winter wheat	winter rye	winter braley	winter wheat	narrow- leaved lupin	winter wheat	winter wheat	winter wheat
<b>Type of sprayer</b>	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	WACH-4 BICSPR	WACH-4 BICSPR	WACH-4 BICSPR
<b>Date of treatment A</b>	09.10.2020	22.10.2020	22.10.2020	23.10.2020	28.10.2020	22.10.2020	17.09.2020	21.09.2020	18.09.2020	24.09.2020	24.09.2020	09.10.2020
<b>Plant de- velopment phase A</b>	BBCH 14-17	BBCH 14-18	BBCH 12-14	BBCH 14-17	BBCH 14-17	BBCH 10-12	BBCH 12-16	BBCH 12-13	BBCH 14-15	BBCH 14-15	BBCH 14-15	BBCH 17-18
<b>Soil type</b>	loamy sand	loamy sand	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	sandy clay loam	sandy loam	sandy loam
<b>pH</b>	7.6	7.6	4.5	5.7	6.1	4.5	6.0	6.0	6.0	6.1	6.6	6.6
<b>Water (l/ha) ( application A and B)</b>	200 L/ha	200 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha	200 L/ha	200 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha



[illegible]

### Winter oilseed rape in spring application in 2021a

Report code	A.T/2021/01/RZO	A.T/2021/02/RZO	A.T/2021/03/RZO	A.T/2021/04/RZO	A.T/2021/05/RZO	A.T/2021/06/RZO	A.T/2021/07/RZO	A.T/2021/08/RZO	A.T/2021/09/RZO	A.T/2021/10/RZO	A.T/2021/64/RZO	A.T/2021/65/RZO	A.T/2021/66/RZO
Location	Modrze/Poland	Czesławice/Poland	Wilkowo/Poland	Szapsk/Poland	Szyszk-Folwark/Poland	Modrze/Poland	Jęczniki Wielkie/Poland	Szapsk/Poland	Jęczniki Wielkie/Poland	Szyszk-Folwark/Poland	Jęczniki Wielkie/Poland	Batorowo/Poland	Kakulin/Poland
Plant/cultivar	winter oilseed rape/ Dominator	winter oilseed rape/ Kuga	winter oilseed rape/ Umberto	winter oilseed rape/ KWS Riccardo	winter oilseed rape/ Polana	winter oilseed rape/ Dominator	winter oilseed rape/ LG Aviron	winter oilseed rape/ KWS Riccardo	winter oilseed rape/ LG Aviron	winter oilseed rape/ Polana	winter oilseed rape/ Umberto	winter oilseed rape/ Dominator	winter oilseed rape/ LG Aviron
Seeding date	25.08.2020	23.08.2020	26.08.2020	20.08.2020	18.08.2020	25.08.2020	26.08.2020	20.08.2020	26.08.2020	18.08.2020	27.08.2020	28.08.2020	25.08.2020
Seeding rate	40 S/ha	45 S/ha	2.8 kg/ha	2.1 kg/ha	3.0 kg/ha	40 S/ha	2.8 kg/ha	2.1 kg/ha	2.8 kg/ha	3.0 kg/ha	2.8 kg/ha	42 P/m2	2.9 kg/ha
Fore-crop	spring barley	winter wheat	winter triticale	winter rye	winter barley	spring barley	winter barley	winter rye	winter barley	winter barley	winter barley	winter barley	winter wheat
Type of sprayer	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated
Date of treatment	26.03.2021	30.03.2021	30.03.2021	30.03.2021	19.04.2021	17.04.2021	31.03.2021	12.04.2021	10.05.2021	30.04.2021	19.05.2021	12.05.2021	24.05.2021
Plant development phase	BBCH 30-35	BBCH 32-35	BBCH 33-37	BBCH 30-35	BBCH 35-39	BBCH 39-50	BBCH 30-35	BBCH 35-39	BBCH 51-55	BBCH 55-59	BBCH 63-67	BBCH 65-67	BBCH 65-69
Soil type	loamy sand	sandy loam	sandy loam	sand	loamy sand	loamy sand	sandy loam	sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand
Soil pH	6.5	6.2	4.8	6.3	6.5	6.5	4.8	6.3	4.8	6.5	5.8	6.3	5.1
Water	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha

### Winter oilseed rape in spring application in 2021b

Report code	AI/21/RO/4/Pr/01	AI/21/RO/4/ZI/02	AI/21/RO/4/Br/03	AI/21/RO/14/Ma/AD EL	CH-WR-I-ADEL-2021-01	CH-WR-I-ADEL-2021-02	CH-WR-I-ADEL-2021-03	CH-WR-I-ADEL-2021-04	SRPL21-401-336FE	SRPL21-402-336FE	9I/2021	10I/2021	11I/2021	12I/2021
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Location	Przybroda/ Poland	Złotniki/ Poland	Brody/ Poland	Machary/ Poland	Waliszew/ Poland	Gabin/ Poland	Gabin/ Poland	Gabin/ Poland	Tomaryn- ki/ Poland	Osówka/ Poland	Lany Wielkie/ Poland	Lany Wielkie/ Poland	Sosnicowi- ce/ Poland	Lany Wielkie/ Poland
Plant/culti var	winter oilseed rape/ Harry	winter oilseed rape/ Graf F1	winter oilseed rape/ Ber- ny	winter oilseed rape/ Harry	winter oilseed rape/ Kuga F1	winter oilseed rape/ Kuga F1	winter oilseed rape/ Kuga F1	winter oilseed rape/ Kuga F1	winter oilseed rape/ DK Exquisite	winter oilseed rape/ Bazyl	winter oilseed rape/ Ar- chitect	winter oilseed ra- pe/Alibaba	winter oilseed rape/Birdy	winter oilseed rape/ Ar- chitect
Seeding date	24.08.2020	25.08.2020	21.08.2020	24.08.2020	19.08.2020	21.08.2020	19.08.2020	21.08.2020	22.08.2020	12.09.2020	27.08.2020	25.08.2021	27.08.2020	27.08.2020
Seeding rate	2.8 kg/ha	3.3 kg/ha	3.2 kg/ha	2.8 kg/ha	2.4 kg/ha	2.45 kg/ha	2.4 kg/ha	2.45 kg/ha	4.5 kg/ha	4.0 kg/ha	2.8	4.1	3.0 kg/ha	2.8 kg/ha
Forecrop	winter barley	winter wheat	narrow- leaved lupin	winter barley	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter triticale	winter wheat
Type of sprayer	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	WHEEL- BARROW APLICA- TOR, COM- PRESSED AIR- OPERAT- ED	WHEEL- BARROW APLICA- TOR, COM- PRESSED AIR- OPERAT- ED	WHEEL- BARROW APLICA- TOR, COM- PRESSED AIR- OPERAT- ED	WHEEL- BARROW APLICA- TOR, COM- PRESSED AIR- OPERAT- ED	SR_PL_13 6/1 BAC- CAI	T-BOOM BACCAI	WACH-2 BICSPR	WACH-2 BICSPR	WACH-2 BICSPR	WACH-4 BICSPR
Date of treatment	13.04.2021	31.03.2021	01.04.2021	20.05.2021	24.04.2021	24.04.2021	13.05.2021	12.05.2021	11.05.2021	12.05.2021	20.04.2021	20.04.2021	14.05.2021	14.05.2021
Plant deve- lopment phase	BBCH 35	BBCH 30	BBCH 39	BBCH 61- 69	BBCH 55	BBCH 55	BBCH 65	BBCH 65- 67	BBCH 51- 53	BBCH 57- 59	BBCH 39- 50	BBCH 39- 50	BBCH 65- 67	BBCH 65
Soil type	sandy loam	loamy sand	loamy sand	loamy clay	sandy loam	sandy clay	sandy loam	sandy clay	sandy loam	sandy clay	sandy loam	sandy loam	sandy clay loam	sandy loam
Soil pH	6.0	6.0	6.0	6.0	6.1	6.5	6.1	6.5	5.1	6.2	6.1	6.6	6.2	6.1
Water	300 L/ha	250 L/ha	230 L/ha	200 L/ha	200 L/ha	200 L/ha	200 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha

## Winter wheat in 2020 and 2021

[illegible]

Winter triticale in 2020 and 2021

Report code	SRPL20-415-336FE	SRPL20-418-336FE	AI/20/Ps zO/24/G r/02	A.T/2021/092/PŻ O	A.T/2021/093/PŻ O	A.T/2021/094/PŻ O	A.T/2021/095/PŻ O	AI/21/Ps zO/20/Pr /1	AI/21/Ps zO/20/R a/2	SRPL21-452-336FE	SRPL21-453-336FE	SRPL21-454-336FE	SRPL21-455-336FE	SRPL21-456-336FE	SRPL21-457-336FE
Location	Jankowice Wielkie, Poland	Owczary, Poland	Gorzyń, Poland	Modrze/ Poland	Nowa Wieś Ujska/ Poland	Suchary/ Poland	Studzieniec/ Poland	Przybroda/ Poland	Rataje/ Poland	Tynwałd/ Poland	Osowka/ Poland	Tonowo/ Poland	Sulino-wo/ Poland	Murczyn/ Poland	Tomaszkowo/ Poland
Plant/cultivar	winter triticale/ Fredro	winter triticale/ Trapero	winter triticale/ Tadeus	winter triticale/ Meloman	winter triticale/ Lombardo	winter triticale/ Orinoko	winter triticale/ Meloman	winter triticale/ Grenado	winter triticale/ Porto	winter triticale/ Meloman	winter triticale/ Rotondo	winter triticale/ Balcanto	winter triticale/ Borowik	winter triticale/ Rotondo	winter triticale/ Rotondo
Seeding date	09.10.2019	24.09.2019	04.10.2019	24.09.2020	24.09.2020	03.10.2020	05.10.2020	22.09.2020	01.10.2020	05.10.2020	29.10.2020	02.10.2020	21.09.2021	19.09.2020	28.09.2020
Seeding rate	200 kg/ha	200 kg/ha	214 kg/ha	135 kg/ha	160 kg/ha	150 kg/ha	230 kg/ha	150 kg/ha	200 kg/ha	180 kg/ha	280 kg/ha	200 kg/ha	200 kg/ha	170 kg/ha	1780 kg/ha
Fore-crop	maize	maize	forage legume plants	winter wheat	winter wheat	winter barley	winter wheat	winter wheat	spring barley	spring barley	winter wheat	maize	winter wheat	winter oilseed rape	spring barley
Type of sprayer	T-Boom BACCAI	T-Boom BACCAI	plot sprayer SPRBIC	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	PLOT SPRAY-ER BICSPR	PLOT SPRAY-ER BICSPR	backpack applicator, compressed air-operated	SPRBIC	T-BOOM BACCAI	T-BOOM BACCAI	T-BOOM BACCAI	SR_PL_1 36/1 BACCAI
Date of treatment	06.07.2020	06.07.2020	26.06.2020	18.06.2021	23.06.2021	24.06.2021	26.06.2021	03.06.2021	21.06.2021	21.06.2021	09.06.2021	30.06.2021	25.06.2021	15.06.2021	09.06.2021
Plant development phase	BBCH 73-77		BBCH 73-75	BBCH 73-77	BBCH 69-73	BBCH 69-73	BBCH 65-69	BBCH 49	BBCH 63	BBCH 65-69	BBCH 51-55	BBCH 71-73	BBCH 73-75	BBCH 71-73	BBCH 61-65
Soil type	sandy clay loam	sandy loam	sandy loam	loamy sand	sandy loam	loamy sand	sand	loamy sand	loamy sand	sandy loam	sandy loam	sandy loam	loam	sandy clay loam	sandy loam
Soil pH	6.9	6.3	6.2	6.6	4.6	6.3	6.1	6.0	6.9	5.5	5.5	6	6.4	6.5	5.2
Water	300 L/ha	300 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	200 L/ha	250 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha

Sugar beet in 2020 and 2021

Report code	SRPL20-419-336FE	SRPL20-420-336FE	SRPL20-421-336FE	AI/20/Bc/24/Lu/01	A.T/2021/081/B C	A.T/2021/082/B C	A.T/2021/083/B C	A.T/2021/084/B C	A.T/2021/085/B C	A.T/2021/086/B C	A.T/2021/087/B C	AI/21/B C/18/Br/1	AI/21/B C/18/La/2	AI/21/B C/18/M r/3	AI/21/B C/18/Ko/4	AI/21/B C/18/ZI
Location	Turze, Poland	Borzęcin, Poland	Pogorzela, Poland	Lubiń, Poland	Gaj Wielki/ Poland	Żabiczyn/ Poland	Jeziorki Kosztowskie/ Poland	Suchary/ Poland	Szapsk/ Poland	Trzeciewnica/ Poland	Studzieniec/ Poland	Brody/ Poland	Laskowo/ Poland	Mrowino/ Poland	Kokoszczyń/ Poland	Złotnik/ Poland
Plant/cultivar	sugar beet/ Sobieski	sugar beet/ Jagienka	sugar beet/ Kujavia	sugar beet/ Krajana	sugar beet/ Toleranza KWS	sugar beet/ Marynia	sugar beet/ Kujavia	sugar beet/ Kujavia	sugar beet/ Smart Latoria KWS	sugar beet/ Jantar	sugar beet/ FD Drift	sugar beet/ Lancaster	sugar beet/ Gellert	sugar beet/ Panorama	sugar beet/ Toleranza	sugar beet/ Jagiellon
Seeding date	25.04.2020	16.04.2020	28.03.2020	16.04.2020	29.03.2021	07.04.2021	06.04.2021	06.04.2021	05.04.2021	09.04.2021	01.04.2021	09.04.2021	08.04.2021	07.04.2021	01.04.2021	08.04.2021
Seeding rate	90,000 S/ha	125,000 S/ha	125,000 S/ha	100,000 S/ha	120,000 S/ha	100,000 S/ha	85 TS/ha	100,000 S/ha	110,000 S/ha	100,000 S/ha	112,000 S/ha	100,000 S/ha	110,000 S/ha	110,000 S/ha	120,000 S/ha	100,000 S/ha
Fore-crop	winter wheat	winter wheat	winter wheat	white sweet-clover	winter rye	winter wheat	winter wheat	winter rape	maize	winter triticale	maize	winter wheat	winter wheat	winter triticale	winter triticale	winter barley
Type of sprayer	T-Boom BAC-CAI	T-Boom BAC-CAI	T-Boom BAC-CAI	plot sprayer SPRBIC	OP-02 BAC-CAI	OP-02 BAC-CAI	OP-02 BAC-CAI	OP-3 BAC-CAI	OP-05 BAC-CAI	OP-3 BAC-CAI	OP-05 BAC-CAI	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR
Date of treatment	22.05.2020	29.05.2020	02.06.2020	18.05.2020	30.05.2021	14.06.2021	26.05.2021	10.06.2021	15.06.2021	04.06.2021	31.05.2021	20.05.2021	24.05.2021	31.05.2021	31.05.2021	25.05.2021
Plant development phase	BBCH 12-13	BBCH 13-14	BBCH 13-15	BBCH 14-15	BBCH 12-14	BBCH 14-19	BBCH 12-14	BBCH 17-19	BBCH 18-19	BBCH 12-16	BBCH 12-16	BBCH 13	BBCH 12-13	BBCH 13-14	BBCH 13-14	BBCH 13
Soil type	sandy loam	sandy loam	clay loam	course sandy loam	sandy loam	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
Soil pH	6.1	6.8	6.6	6.8	6.4	6.5	4.9	7.5	6.6	5.3	6.2	5.9	5.9	6.1	6	5.4
Water	300 L/ha	300 L/ha	300 L/ha	250 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	230 L/ha	200 L/ha	200 L/ha	200 L/ha	200 L/ha

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.

### Efficacy tests

The 91 trials in total (winter oilseed rape 50 trails, winter wheat 10 trials, winter triticale 15 trials, sugar beet 16 trials) were carried out in in 2019 in winter oilseed rape (autumn application - 4 trials), in 2020 in winter oilseed rape (spring application - 7 trails, autumn application – 12 trials), winter wheat (4 trails), winter triticale (3 trials) and in sugar beet (4 trials) and in 2021 in winter oilseed rape (spring application - 27 trails), winter wheat (6 trails), winter triticale (12 trials) and in sugar beet (12 trials) in Poland.

The insecticide CHR/I/ADEL 280 SC was applied once per season at the following rates:

The product CHR/I/ADEL 280 SC has been used:

in winter oilseed rape at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in winter wheat at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in winter triticale at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in sugar beet at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

Tested insecticide was applied at the growth stage winter oilseed rape, winter wheat, winter triticale and sugar beet:

winter oilseed rape: BBCH 12-21 and BBCH 30-70

winter wheat: BBCH 65-76

winter triticale: BBCH 49-77

sugar beet: BBCH 12-19

**Table 3.2-11: Details on trial methodology**

<b>Guidelines</b>	General 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 GEP
	Specific guidelines	PP 1/233(1) Athalia r, Plutella x. and Autographa g. on arable Brassicaceae PP 1/228(2) Aphids on beet PP 1/229(1) Aphids on leguminous crops PP 1/230(1) Aphids on potato PP 1/20(3) Aphids on cereals PP 1/85(3) Thrips on outdoor crops PP 1/209(2) Pegomya spp. on beet and spinach PP 1/24(2) Aphids on potato, sugar beet, pea, broad bean and other vegetables PP 1/107(3) Ceutorhynchus assimilis PP 1/220(1) Dasineura brassicae

		PP 1/178(3) Meligethes aeneus on rape PP 1/219(1) Ceutorhynchus napi and C. pallidactylus (quadridens) in OSR
Experimental design	Plot design	Randomized Complete Block (RCB) – (91)
	Plot size	winter oilseed rape in autumn application: 15-25.004 m <sup>2</sup> winter oilseed rape in spring application: 18-40.04 m <sup>2</sup> winter wheat: 15.5-24 m <sup>2</sup> winter triticale: 17.5-27 m <sup>2</sup> sugar beet: 17.5-30 m <sup>2</sup>
	Number of replications	4 (91)
Crop	Trials per crop	winter oilseed rape in autumn application (16) winter oilseed rape in spring application (34) winter wheat (10) winter triticale (15) sugar beet (16)
	Varieties per crop	winter oilseed rape in autumn application: Visby, Dominator, Harry, ES Cesario, Kuga, Hamilton, Addition, Graf F1, Berny, Alibaba, winter oilseed rape in spring application: Dominator, Harry, Kuga, Umberto, KWS Riccardo, Polana, LG Aviron, Graf F1, Kuga F1, Berny, DK Exquisite, Bazyl, Architect, Alibaba, Birdy winter wheat: Kilimanjaro, Ostroga, Arkadia, Hondia, Euclide, RGT Bilanz, Tonnage, Asory, Findus winter triticale: Fredro, Trapero, Tadeus, Meloman, Lombardo, Orionoko, Grenado, Porto, Rotondo, Balcanto, Borowik sugar beet: Sobieski, Jagienka, Kujavia, Krajan, Toleranza KWS, Marynia, Smart Latoria KWS, Jantar, FD Drift, Lancaster, Gellert, Panorama, Toleranza, Jagiellon
	Sowing period	winter oilseed rape in autumn application: 23.08.2019-26.08.2019, 20.08.2020-10.09.2020 winter oilseed rape in spring application: 20.08.2019-29.08.2019, 18.08.2020-12.09.2020 winter wheat: 18.09.2019-21.10.2019, 15.09.2020-15.10.2020 winter triticale: 24.09.2019-09.10.2019, 19.09.2020-29.10.2020 sugar beet: 28.03.2020-25.04.2020, 29.03.2021-09.04.2021
Application	Crop stage (BBCH)* at application	winter oilseed rape in autumn application: BBCH 12-21 winter oilseed rape in spring application: BBCH 30-70 winter wheat: BBCH 65-76 winter triticale: BBCH 49-77 sugar beet: BBCH 12-19
	Timing	The data available in Appendix 4
	Pest stage at application	



	(1)	
	Number of applications	1 (91 trials)
	Intervals between applications	interval – n/a
	Spray volumes	winter oilseed rape: 200-300 L/ha winter wheat: 300 L/ha winter triticale: 200-300 L/ha sugar beet: 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 ...)	winter oilseed rape in autumn application pH: 4.5-7.6 winter oilseed rape in spring application pH: 4.8-7.5 winter wheat pH: 4.8-7.5 winter triticale pH: 4.6-6.9 sugar beet pH: 6.9-7.5
	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

A total of 91 trials were carried out to evaluate the efficacy of product CHR/I/ADEL 280 SC for the control of insects in winter oilseed rape, winter wheat, winter triticale and sugar beet.

Efficacy data for insects are presented from 91 efficacy trials assessed. 91 trials have been conducted in season 2019, 2020 and 2021 in Poland.

### 3.2.3-1 Efficacy tests of CHR/I/ADEL 280 SC

#### Winter oilseed rape

In winter oilseed rape the four trials were carried out in 2019 (autumn application), 7 trials in 2020 (spring application), 12 trials in 2020 (autumn application) and 27 trials in 2021 (spring application). The insecticide CHR/I/ADEL 280 SC was applied once per season at the following rates 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha. The treatments was conducted at the growth stage BBCH 10-21 in autumn application and BBCH 30-70 in spring application.

#### Winter wheat

In winter wheat the four trials were carried out in 2020 and 6 trials in 2021. The insecticide CHR/I/ADEL 280 SC was applied once per season at the following rates 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha. The treatments was conducted at the growth stage BBCH 65-76.

#### Winter triticale

In winter triticale 3 trials were carried out in 2020 and 12 trials in 2021. The insecticide CHR/I/ADEL 280 SC was applied once per season at the following rates 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha. The treatments was conducted at the growth stage BBCH 49-77.

#### Sugar beet

In sugar beet 4 trials were carried out in 2020 and 12 trials in 2021. The insecticide CHR/I/ADEL 280 SC was applied once per season at the following rates 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha. The treatments was conducted at the growth stage BBCH 12-19.

#### Winter oilseed rape in autumn application

##### 3.2.3-1.1 The efficacy of CHR/I/ADEL 280 SC in control of ATALCO *Athalia rosae*/ATALAG *Athalia* in winter oilseed rape

The efficiency of CHR/I/ADEL 280 SC in control of ATALCO *Athalia rosae*/ATALAG *Athalia* were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 1-9. The effectiveness fluctuated from 56.91% to 89.57%.

The effectiveness fluctuated at rate 0.06 L/ha from 19.00% (9 DA-A) to 86.20% (2 DA-A), at rate 0.08 L/ha from 18.00% (9 DA-A) to 93.60% (2 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 44.48% (1 DA-A) to 94.50% (2 DA-A), at rate 0.10 L/ha from 32.00% (9 DA-A) to 93.30% (9 DA-A), at rate 0.12 L/ha from 54.00% (2 DA-A) to 93.80% (9 DA-A), at rate 0.14 L/ha from 62.00% (2 DA-A) to 97.20% (2 DA-A), at rate 0.16 L/ha from 70.00% (2 DA-A) to 97.30% (3 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Decis Mega 50 EW and higher than the standard product Los Ovados 200 SE + Asystent +. In the trials efficacy amounted above 92.93% for Decis Mega 50 EW and 59.40% for Los Ovados 200 SE + Asystent+ during the assessment (Appendix 5. Table 1.).

#### Leaf area damage

The efficiency of CHR/I/ADEL 280 SC in control of leaf damage caused by *Athalia rosae*/*Athalia* were investigated in 6 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled leaf damage caused by *Athalia rosae*/*Athalia* DA-A 9. The leaf area damage fluctuated from 2.7% to 6.6%.

The leaf area damage fluctuated at rate 0.06 L/ha from 3.9% to 11.2%, at rate 0.08 L/ha from 3.3% to 5.8%, at rate 0.08 + Asystent + 0.10 L/ha from 3.3% to 6.3%, at rate 0.10 L/ha from 3.0% to 6.6%, at rate 0.12 L/ha from 2.0% to 5.7%, at rate 0.14 L/ha from 1.8% to 5.5%, at rate 0.16 L/ha from 1.5% to 4.0%. Compared to Untreated Check, the leaf area damage was smaller by 55.4 %-81.8%.

The efficacy of the tested insecticide in control of leaf damage caused by *Athalia rosae*/*Athalia* were was slightly higher than the standard product Los Ovados 200 SE + Asystent+ and Decis Mega 50 EW. In the trials leaf area damage amounted above 3.8 % for Decis Mega 50 EW and 5.1% for Los Ovados 200 SE + Asystent + during the assessment (Appendix 5. Table 2.).

##### 3.2.3-1.2 The efficacy of CHR/I/ADEL 280 SC in control of BRVCBR *Brevicoryne brassicae* in win-

### ter oilseed rape

The efficiency of CHR/I/ADEL 280 SC in control of BRVCBR *Brevicoryne brassicae* were investigated in 4 trial. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the high level of efficacy DA-A 13-14. The effectiveness fluctuated from 90.85% to 99.28%.

The effectiveness fluctuated at rate 0.06 L/ha from 86.30% (14 DA-A) to 96.60% (13 DA-A), at rate 0.08 L/ha from 87.10% (13 DA-A) to 96.00% (13 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 89.10% (13 DA-A) to 99.10% (14 DA-A), at rate 0.10 L/ha from 97.80% (13 DA-A) to 100% (14 DA-A), at rate 0.12 L/ha from 98.40% (13 DA-A) to 100% (14 DA-A), at rate 0.14 L/ha from 98.20% (13 DA-A) to 100% (14 DA-A), at rate 0.16 L/ha from 91.20% (14 DA-A) to 100% (13-14 DA-A).

The efficacy of the tested insecticide was higher than the standard product Decis Mega 50 EW and comparable tp the standard product Los Ovados 200 SE + Asystent+. In the trials efficacy amounted above 41.15% for Decis Mega 50 EW and 97.13% for Los Ovados 200 SE + Asystent+ during the assessment (Appendix 5. Table 3.).

### 3.2.3-1.3 The efficacy of CHR/I/ADEL 280 SC in control of MYZUPE *Myzus persicae* in winter oilseed rape

The efficiency of CHR/I/ADEL 280 SC in control of MYZUPE *Myzus persicae* were investigated in 4 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the low to high level of efficacy DA-A 3-8. The effectiveness fluctuated from 59.95% to 87.25%.

The effectiveness fluctuated at rate 0.06 L/ha from 35.00% (13 DA-A) to 90.40% (14 DA-A), at rate 0.08 L/ha from 49.00% (13 DA-A) to 98.90% (14 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 52.00% (13 DA-A) to 100% (14 DA-A), at rate 0.10 L/ha from 56.00% (13 DA-A) to 100% (14 DA-A), at rate 0.12 L/ha from 61.00% (13 DA-A) to 100% (14 DA-A), at rate 0.14 L/ha from 67.00% (13 DA-A) to 100% (14 DA-A), at rate 0.16 L/ha from 69.00% (13 DA-A) to 100% (14 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Los Ovados 200 SE + Asys-tent + and slightly higher than the standard product Decis Mega 50 EW. In the trials efficacy amounted above 59.60% for Decis Mega 50 EW and 86.00% for Los Ovados 200 SE + Asystent + during the assessment (Appendix 5. Table 4.).

### 3.2.3-1.4 The efficacy of CHR/I/ADEL 280 SC in control of aphids in winter oilseed rape

The efficiency of CHR/I/ADEL 280 SC in control of aphids were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 13-14. The effectiveness fluctuated from 76.42% to 93.66%.

The effectiveness fluctuated at rate 0.06 L/ha from 35.00% (13 DA-A) to 96.60% (14 DA-A), at rate 0.08 L/ha from 49.00% (13 DA-A) to 98.90% (14 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 52.00% (13 DA-A) to 100% (14 DA-A), at rate 0.10 L/ha from 56.00% (13 DA-A) to 100% (14 DA-A), at rate 0.12 L/ha from 61.00% (13 DA-A) to 100% (14 DA-A), at rate 0.14 L/ha from 67.00% (13 DA-A) to 100% (14 DA-A), at rate 0.16 L/ha from 69.00% (13 DA-A) to 100% (13-14 DA-A).

The efficacy of the tested insecticide was slightly higher than the standard product Decis Mega 50 EW and comparable to the standard product Los Ovados 200 SE + Asystent +. In the trials efficacy amounted above 57.79% for Decis Mega 50 EW and 92.09% for Los Ovados 200 SE + Asystent+ during the assessment (Appendix 5. Table 5.).

### Winter oilseed rape in spring application

### 3.2.3-1.5 The efficacy of CHR/I/ADEL 280 SC in control of CEUTQU *Ceutorhynchus quadridens*, syn. *C. pallidactylus* in winter oilseed rape

#### Larva

The efficiency of CHR/I/ADEL 280 SC in control of CEUTQU *Ceutorhynchus quadridens*, syn. *C. pallidactylus* were investigated in 10 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the low to medium level of efficacy DA-A 28-56. The effectiveness fluctuated from 39.34% to 73.35%.

The effectiveness fluctuated at rate 0.06 L/ha from 4.00% (37 DA-A) to 52.20% (44 DA-A), at rate 0.08 L/ha from 36.80% (37 DA-A) to 78.00% (43 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 50.40% (49 DA-A) to 87.50% (34 DA-A), at rate 0.10 L/ha from 30.30% (49 DA-A) to 82.90% (44 DA-A), at rate 0.12 L/ha from 57.00% (37 DA-A) to 78.10% (34 DA-A), at rate 0.14 L/ha from 62.60% (37 DA-A) to 88.30% (44 DA-A), at rate 0.16 L/ha from 57.30% (37 DA-A) to 87.50% (43 DA-A).

The efficacy of the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG was slightly higher than the tested insecticide. In the trials efficacy amounted above 78.01% for Decis Mega 50 EW and 76.72% for Inazuma 130 WG during the assessment (Appendix 5. Table 6.).

#### Plant

The efficiency of CHR/I/ADEL 280 SC in reducing plant damage caused by CEUTQU *Ceutorhynchus quadridens*, syn. *C. pallidactylus* were investigated in 6 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to medium level of efficacy DA-A 34-49. The effectiveness fluctuated from 43.15% at rate 0.06 L/ha to 76.15% at rate 0.16 L/ha.

The effectiveness fluctuated at rate 0.06 L/ha from 29.40% (49 DA-A) to 56.80% (34 DA-A), at rate 0.08 L/ha from 41.20% (49 DA-A) to 73.00% (34 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 50.00% (49 DA-A) to 70.30% (34 DA-A), at rate 0.10 L/ha from 54.50% (43 DA-A) to 71.80% (44 DA-A), at rate 0.12 L/ha from 54.50% (43 DA-A) to 69.20% (44 DA-A), at rate 0.14 L/ha from 63.60% (43 DA-A) to 82.10% (44 DA-A), at rate 0.16 L/ha from 72.00% (38 DA-A) to 81.10% (34 DA-A).

The efficacy of the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG was slightly higher than the tested insecticide. In the trials efficacy amounted above 76.43% for Decis Mega 50 EW and 78.40% for Inazuma 130 WG during the assessment (Appendix 5. Table 7.).

#### Stem

The efficiency of CHR/I/ADEL 280 SC in reducing stem damage caused by CEUTQU *Ceutorhynchus quadridens*, syn. *C. pallidactylus* were investigated in 6 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to medium level of efficacy DA-A 34-49. The effectiveness fluctuated from 44.30% at rate 0.06 L/ha to 76.88% at rate 0.16 L/ha.

The effectiveness fluctuated at rate 0.06 L/ha from 32.30% (49 DA-A) to 57.70% (34 DA-A), at rate 0.08 L/ha from 41.00% (38 DA-A) to 73.20% (44 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 46.30% (49 DA-A) to 77.20% (34 DA-A), at rate 0.10 L/ha from 48.40% (49 DA-A) to 78.30% (44 DA-A), at rate 0.12 L/ha from 57.00% (49 DA-A) to 74.30% (44 DA-A), at rate 0.14 L/ha from 59.70% (49 DA-A) to 83.00% (38 DA-A), at rate 0.16 L/ha from 74.00% (38 DA-A) to 82.40% (43 DA-A).

The efficacy of the tested insecticide was slightly lower than the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG. In the trials efficacy amounted above 78.93% for Decis Mega 50 EW and 77.27% for Inazuma 130 WG during the assessment (Appendix 5. Table 8.).

### 3.2.3-1.6 The efficacy of CHR/I/ADEL 280 SC in control of CEUTNA *Ceutorhynchus napi* in winter oilseed rape

#### Larva

The efficiency of CHR/I/ADEL 280 SC in control of CEUTNA *Ceutorhynchus napi* were investigated in 9 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10

L/ha controlled this insect at the low to medium level of efficacy DA-A 34-52. The effectiveness fluctuated from 47.26% at rate 0.06 L/ha to 74.33% at rate 0.16 L/ha.

The effectiveness fluctuated at rate 0.06 L/ha from 32.60% (52 DA-A) to 57.70% (45 DA-A), at rate 0.08 L/ha from 34.10% (52 DA-A) to 78.00% (43 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 37.00% (52 DA-A) to 87.50% (34 DA-A), at rate 0.10 L/ha from 30.30% (49 DA-A) to 82.90% (44 DA-A), at rate 0.12 L/ha from 41.50% (52 DA-A) to 78.10% (34 DA-A), at rate 0.14 L/ha from 60.40% (52 DA-A) to 88.30% (44 DA-A), at rate 0.16 L/ha from 57.30% (49 DA-A) to 87.50% (43 DA-A).

The efficacy of the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG was slightly higher than the tested insecticide. In the trials efficacy amounted above 82.56% for Decis Mega 50 EW and 74.39% for Inazuma 130 WG during the assessment (Appendix 5. Table 9.).

#### Plant

The efficiency of CHR/I/ADEL 280 SC in reducing plant damage caused by CEUTNA *Ceutorhynchus napi* were investigated in 4 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the low to medium level of efficacy DA-A 34-49. The effectiveness fluctuated from 44.48% at rate 0.06 L/ha to 78.23% at rate 0.16 L/ha.

The effectiveness fluctuated at rate 0.06 L/ha from 29.40% (49 DA-A) to 56.80% (34 DA-A), at rate 0.08 L/ha from 41.20% (49 DA-A) to 73.00% (34 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 50.00% (49 DA-A) to 70.30% (34 DA-A), at rate 0.10 L/ha from 54.50% (43 DA-A) to 71.80% (44 DA-A), at rate 0.12 L/ha from 54.50% (43 DA-A) to 69.20% (44 DA-A), at rate 0.14 L/ha from 63.60% (43 DA-A) to 82.10% (44 DA-A), at rate 0.16 L/ha from 73.50% (49 DA-A) to 81.10% (34 DA-A).

The efficacy of the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG was slightly higher than the tested insecticide. In the trials efficacy amounted above 81.90% for Decis Mega 50 EW and 82.60% for Inazuma 130 WG during the assessment (Appendix 5. Table 10.).

#### Stem

The efficiency of CHR/I/ADEL 280 SC in reducing stem damage caused by CEUTNA *Ceutorhynchus napi* were investigated in 4 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the low to medium level of efficacy DA-A 34-49. The effectiveness fluctuated from 46.95% at rate 0.06 L/ha to 77.58% at rate 0.16 L/ha.

The effectiveness fluctuated at rate 0.06 L/ha from 32.30% (49 DA-A) to 57.70% (34 DA-A), at rate 0.08 L/ha from 45.10% (49 DA-A) to 73.20% (44 DA-A), at rate 0.08 + Asystent + 0.10 L/ha from 46.30% (49 DA-A) to 77.20% (34 DA-A), at rate 0.10 L/ha from 48.40% (49 DA-A) to 78.30% (44 DA-A), at rate 0.12 L/ha from 57.00% (49 DA-A) to 74.30% (44 DA-A), at rate 0.14 L/ha from 59.70% (49 DA-A) to 83.00% (34 DA-A), at rate 0.16 L/ha from 75.20% (44 DA-A) to 82.40% (43 DA-A).

The efficacy of the tested insecticide was slightly lower than the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG. In the trials efficacy amounted above 82.65% for Decis Mega 50 EW and 80.15% for Inazuma 130 WG during the assessment (Appendix 5. Table 11.).

#### 3.2.3-1.7 The efficacy of CHR/I/ADEL 280 SC in control of MELIAE *Brassicogethes aeneus* syn. *Meligethes aeneus* in winter oilseed rape

The efficiency of CHR/I/ADEL 280 SC in control of MELIAE *Brassicogethes aeneus* syn. *Meligethes* were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 1-6. The effectiveness fluctuated from 64.69% to 84.85%.

The effectiveness fluctuated at rate 0.06 L/ha from 27.10% (1 DA-A) to 84.41% (1 DA-A), at rate 0.08 L/ha from 36.90% (1 DA-A) to 89.00% (1 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 45.20% (1 DA-A) to 91.70% (1 DA-A), at rate 0.10 L/ha from 39.00% (1 DA-A) to 94.00% (5 DA-A), at rate 0.12 L/ha from 48.70% (1 DA-A) to 94.60% (5 DA-A), at rate 0.14 L/ha from 50.97% (6 DA-A) to 97.00% (5 DA-A), at rate 0.16 L/ha from 51.05% (6 DA-A) to 98.42% (1 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Los Ovados 200 SE + Asystent+ and slightly higher than the standard product Decis Mega 50 EW and Inazuma 130 WG. In the trials

efficacy amounted above 73.28% for Decis Mega 50 EW, 76.93% for Los Ovados 200 SE + Asystent+ and 77.50% for Inazuma 130 WG during the assessment (Appendix 5. Table 12.).

### 3.2.3-1.8 The efficacy of CHR/I/ADEL 280 SC in control of CEUTPL *Ceutorhynchus assimilis* in winter oilseed rape

#### Larva, adult

The efficiency of CHR/I/ADEL 280 SC in control of CEUTPL *Ceutorhynchus assimilis* were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to high level of efficacy DA-A 22-28. The effectiveness fluctuated from 55.24% to 82.76%.

The effectiveness fluctuated at rate 0.06 L/ha from 38.00% (28 DA-A) to 72.90% (26 DA-A), at rate 0.08 L/ha from 40.90% (24 DA-A) to 82.40% (26 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 45.5% (24 DA-A) to 100% (28 DA-A), at rate 0.10 L/ha from 62.50% (22 DA-A) to 100% (28 DA-A), at rate 0.12 L/ha from 64.30% (27 DA-A) to 100% (28 DA-A), at rate 0.14 L/ha from 66.80% (27 DA-A) to 100% (28 DA-A), at rate 0.16 L/ha from 68.30% (27 DA-A) to 100% (28 DA-A).

The efficacy of the tested insecticide was slightly higher than the standard product Los Ovados 200 SE + Asystent+, Decis Mega 50 EW and Inazuma 130 WG. In the trials efficacy amounted above 65.60% for Decis Mega 50 EW, 72.01% for Los Ovados 200 SE + Asystent+ and 74.94% for Inazuma 130 WG during the assessment (Appendix 5. Table 13.).

#### Egg

The efficiency of CHR/I/ADEL 280 SC in control eggs of CEUTPL *Ceutorhynchus assimilis* were investigated in 2 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to high level of efficacy DA-A 22-28. The effectiveness fluctuated from 38.00% to 91.00%.

The effectiveness fluctuated at rate 0.06 L/ha from 27.00% (28 DA-A) to 49.00% (28 DA-A), at rate 0.08 L/ha from 75.00% (28 DA-A) to 89.00% (28 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 84.00% (248 DA-A) to 90.00% (28 DA-A), at rate 0.10 L/ha from 78.00% (28 DA-A) to 85.00% (28 DA-A), at rate 0.12 L/ha from 82.00% (28 DA-A) to 91.00% (28 DA-A), at rate 0.14 L/ha from 87.00% (28 DA-A) to 100% (28 DA-A), at rate 0.16 L/ha from 82.00% (28 DA-A) to 100% (28 DA-A).

The efficacy of the tested insecticide was slightly higher than the standard product Los Ovados 200 SE + Asystent+, and comparable to Decis Mega 50 EW and Inazuma 130 WG. In the trials efficacy amounted above 83.50% for Decis Mega 50 EW, 74.00% for Los Ovados 200 SE + Asystent+ and 92.50% for Inazuma 130 WG during the assessment (Appendix 5. Table 14.).

### 3.2.3-1.9 The efficacy of CHR/I/ADEL 280 SC in control of DASYBR *Dasineura brassicae* in winter oilseed rape

The efficiency of CHR/I/ADEL 280 SC in control of DASYBR *Dasineura brassicae* were investigated in 7 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 14-28. The effectiveness fluctuated from 58.84% to 88.00%.

The effectiveness fluctuated at rate 0.06 L/ha from 27.00% (28 DA-A) to 74.30% (14 DA-A), at rate 0.08 L/ha from 50.00% (28 DA-A) to 81.40% (26 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 57.00% (28 DA-A) to 83.40% (26 DA-A), at rate 0.10 L/ha from 59.00% (28 DA-A) to 88.40% (26 DA-A), at rate 0.12 L/ha from 64.00% (28 DA-A) to 87.60% (26 DA-A), at rate 0.14 L/ha from 69.00% (28 DA-A) to 88.20% (26 DA-A), at rate 0.16 L/ha from 71.80% (14 DA-A) to 96.4% (14 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Los Ovados 200 SE + Asystent+ and slightly higher than the standard product Decis Mega 50 EW and Inazuma 130 WG. In the trials efficacy amounted above 65.74% for Decis Mega 50 EW, 80.34% for Los Ovados 200 SE + Asystent+ and 76.01 for Inazuma 130 WG during the assessment (Appendix 5. Table 15.).



## Winter wheat

### 3.2.3-1.10 The efficacy of CHR/I/ADEL 280 SC in control of MACSAV *Sitobion avenae* in winter wheat

The efficiency of CHR/I/ADEL 280 SC in control of MACSAV *Sitobion avenae* were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 1-9. The effectiveness fluctuated from 71.45% to 96.13%.

The effectiveness fluctuated at rate 0.06 L/ha from 29.71% (7 DA-A) to 100% (8 DA-A), at rate 0.08 L/ha from 32.87% (7 DA-A) to 100% (8 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 46.20% (7 DA-A) to 100% (8 DA-A), at rate 0.10 L/ha from 54.77% (7 DA-A) to 100% (8 DA-A), at rate 0.12 L/ha from 63.01% (7 DA-A) to 100% (8 DA-A), at rate 0.14 L/ha from 68.76% (7 DA-A) to 100% (8 DA-A), at rate 0.16 L/ha from 75.83% (7 DA-A) to 100% (8 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Decis Mega 50 EW and Fastac Active 50 ME. In the trials efficacy amounted above 94.21% for Decis Mega 50 EW and 95.28% for Fastac Active 50 ME during the assessment (Appendix 5. Table 16.).

### 3.2.3-1.11 The efficacy of CHR/I/ADEL 280 SC in control of METODR *Metopolophium dirhodum* in winter wheat

The efficiency of CHR/I/ADEL 280 SC in control of METODR *Metopolophium dirhodum* in winter wheat were investigated in 1 trial. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the high level of efficacy DA-A 1-8. The effectiveness amount to 100% at every rate.

The efficacy of the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG was the same as tested insecticide. In the trials efficacy amounted above 100% for Decis Mega 50 EW and 100% for Inazuma 130 WG during the assessment (Appendix 5. Table 17.).

### 3.2.3-1.12 The efficacy of CHR/I/ADEL 280 SC in control of RHOPPA *Rhopalosiphum padi* in winter wheat

The efficiency of CHR/I/ADEL 280 SC in control of METODR *Metopolophium dirhodum* in winter wheat were investigated in 1 trial. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the high level of efficacy DA-A 1-8. The effectiveness fluctuated from 86.90% at rate 0.06 L/ha to 100% at rate 0.16 L/ha.

The efficacy of the standard product Decis Mega 50 EW and the standard product Inazuma 130 WG was comparable to the tested insecticide. In the trials efficacy amounted above 100% for Decis Mega 50 EW and 100% for Inazuma 130 WG during the assessment (Appendix 5. Table 18.).

### 3.2.3-1.13 The efficacy of CHR/I/ADEL 280 SC in control of aphids in winter wheat

The efficiency of CHR/I/ADEL 280 SC in control of aphids were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 1-9. The effectiveness fluctuated from 75.85% to 96.90%.

The effectiveness fluctuated at rate 0.06 L/ha from 29.71% (7 DA-A) to 100% (8 DA-A), at rate 0.08 L/ha from 32.87% (7 DA-A) to 100% (8 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 46.20% (7 DA-A) to 100% (8 DA-A), at rate 0.10 L/ha from 54.77% (7 DA-A) to 100% (8 DA-A), at rate 0.12 L/ha from 63.01% (7 DA-A) to 100% (8 DA-A), at rate 0.14 L/ha from 68.76% (7 DA-A) to 100% (8 DA-A),

at rate 0.16 L/ha from 75.83% (7 DA-A) to 100% (8 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Decis Mega 50 EW and Fastac Active 50 ME. In the trials efficacy amounted above 95.37% for Decis Mega 50 EW and 96.22% for Fastac Active 50 ME during the assessment (Appendix 5. Table 19.)

#### **3.2.3-1.14 The efficacy of CHR/I/ADEL 280 SC in control of THRISP *Thrips* sp. in winter wheat**

The efficiency of CHR/I/ADEL 280 SC in control of THRISP *Thrips* sp. were investigated in 6 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to high level of efficacy DA-A 1-3. The effectiveness fluctuated from 56.91% to 93.69%.

The effectiveness fluctuated at rate 0.06 L/ha from 31.31% (3 DA-A) to 90.40% (1 DA-A), at rate 0.08 L/ha from 59.53% (3 DA-A) to 93.79% (1 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 63.91% (3 DA-A) to 97.70% (1 DA-A), at rate 0.10 L/ha from 70.78% (3 DA-A) to 96.17% (1 DA-A), at rate 0.12 L/ha from 76.23% (3 DA-A) to 96.41% (1 DA-A), at rate 0.14 L/ha from 83.23% (3 DA-A) to 99.21% (1 DA-A), at rate 0.16 L/ha from 87.47% (3 DA-A) to 99.78% (1 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Decis Mega 50 EW and Fastac Active 50 ME. In the trials efficacy amounted above 94.55% for Decis Mega 50 EW and 94.85% for Fastac Active 50 ME during the assessment (Appendix 5. Table 20.).

#### **Winter triticales**

#### **3.2.3-1.15 The efficacy of CHR/I/ADEL 280 SC in control of MACSAV *Sitobion avenae* in winter triticales**

The efficiency of CHR/I/ADEL 280 SC in control of MACSAV *Sitobion avenae* were investigated in 7 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 3-8. The effectiveness fluctuated from 64.26% to 91.24%.

The effectiveness fluctuated at rate 0.06 L/ha from 31.00% (7 DA-A) to 100% (8 DA-A), at rate 0.08 L/ha from 50.00% (7DA-A) to 100% (8 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 43.00% (7 DA-A) to 100% (8 DA-A), at rate 0.10 L/ha from 42.00% (7 DA-A) to to 100% (8 DA-A), at rate 0.12 L/ha from 66.00% (7 DA-A) to 100% (8 DA-A), at rate 0.14 L/ha from 69.00% (7 DA-A) to 100% (8 DA-A), at rate 0.16 L/ha from 71.00% (7 DA-A) to 100% (8 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Decis Mega 50 EW. In the trials efficacy amounted above 88.17% for Decis Mega 50 EW during the assessment (Appendix 5. Table 21.).

#### **3.2.3-1.16 The efficacy of CHR/I/ADEL 280 SC in control of RHOPPA *Rhopalosiphum padi* in winter triticales**

The efficiency of CHR/I/ADEL 280 SC in control of METODR *Metopolophium dirhodum* in winter wheat were investigated in 1 trial. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.10 L/ha controlled this insect at the high level of efficacy DA-A 1-8. The effectiveness amount to 100% at every rate.

The efficacy of the standard product Decis Mega 50 EW was comparable to the tested insecticide. In the trials efficacy amounted above 100% for Decis Mega 50 EW (Appendix 5. Table 22.).

#### **3.2.3-1.17 The efficacy of CHR/I/ADEL 280 SC in control of aphids in winter triticales**



The efficiency of CHR/I/ADEL 280 SC in control of aphids were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 3-9. The effectiveness fluctuated from 68.73% to 92.34%.

The effectiveness fluctuated at rate 0.06 L/ha from 31.00% (7 DA-A) to 100% (8 DA-A), at rate 0.08 L/ha from 50.00% (7DA-A) to 100% (8 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 43.00% (7 DA-A) to 100% (8 DA-A), at rate 0.10 L/ha from 42.00% (7 DA-A) to to 100% (8 DA-A), at rate 0.12 L/ha from 66.00% (7 DA-A) to 100% (8 DA-A), at rate 0.14 L/ha from 69.00% (7 DA-A) to 100% (8 DA-A), at rate 0.16 L/ha from 71.00% (7 DA-A) to 100% (8 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Decis Mega 50 EW. In the trials efficacy amounted above 90.14% for Decis Mega 50 EW during the assessment (Appendix 5. Table 23.).

#### **3.2.3-1.18 The efficacy of CHR/I/ADEL 280 SC in control of THRISP *Thrips* sp. in winter triticales**

The efficiency of CHR/I/ADEL 280 SC in control of THRISP *Thrips* sp. were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 2-8. The effectiveness fluctuated from 68.12% to 94.07%.

The effectiveness fluctuated at rate 0.06 L/ha from 47.01% (2 DA-A) to 94.81% (2 DA-A), at rate 0.08 L/ha from 50.66% (8 DA-A) to 96.17% (2 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 54.52% (3 DA-A) to 97.51% (2 DA-A), at rate 0.10 L/ha from 61.14% (3 DA-A) to 97.73% (2 DA-A), at rate 0.12 L/ha from 69.89% (3 DA-A) to 98.22% (2 DA-A), at rate 0.14 L/ha from 77.50% (3 DA-A) to 100% (7 DA-A), at rate 0.16 L/ha from 81.0% (7 DA-A) to 100% (7 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Fastac Active 50 ME. In the trials efficacy amounted above 95.90% for Fastac Active 50 ME during the assessment (Appendix 5. Table 24.).

### **Sugar beet**

#### **3.2.3-1.19 The efficacy of CHR/I/ADEL 280 SC in control of APHISP *Aphis* sp./APHIFA *Aphis fabae* in sugar beet**

The efficiency of CHR/I/ADEL 280 SC in control of APHISP *Aphis* sp./APHIFA *Aphis fabae* were investigated in 8 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the medium to high level of efficacy DA-A 1-9. The effectiveness fluctuated from 62.34% to 85.13%.

The effectiveness fluctuated at rate 0.06 L/ha from 18.30% (1 DA-A) to 88.28% (7 DA-A), at rate 0.08 L/ha from 24.10% (1 DA-A) to 90.05% (7 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 29.20% (1 DA-A) to 92.70% (7 DA-A), at rate 0.10 L/ha from 29.50% (1 DA-A) to 90.60% (7 DA-A), at rate 0.12 L/ha from 29.00% (1 DA-A) to 95.60% (9 DA-A), at rate 0.14 L/ha from 25.30% (1 DA-A) to 99.20% (9 DA-A), at rate 0.16 L/ha from 36.20% (1 DA-A) to 99.00% (8 DA-A).

The efficacy of the tested insecticide was slightly higher than the standard product Decis Mega 50 EW. In the trials efficacy amounted above 69.95% for Decis Mega 50 EW (Appendix 5. Table 25.).

#### **3.2.3-1.20 The efficacy of CHR/I/ADEL 280 SC in control of PEGOHY *Pegomya hyoscyami* in sugar beet**

### **Larva**

The efficiency of CHR/I/ADEL 280 SC in control of PEGOHY *Pegomya hyoscyami* were investigated in 6 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha

controlled this insect at the high level of efficacy DA-A 7-22. The effectiveness fluctuated from 68.32% to 90.85%.

The effectiveness fluctuated at rate 0.06 L/ha from 53.80% (17 DA-A) to 88.20% (14 DA-A), at rate 0.08 L/ha from 69.20% (17 DA-A) to 100% (7-14 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 71.20% (17 DA-A) to 100% (7-14 DA-A), at rate 0.10 L/ha from 76.60% (14 DA-A) to 100% (7-14 DA-A), at rate 0.12 L/ha from 76.60% (14 DA-A) to 100% (7-14 DA-A), at rate 0.14 L/ha from 81.70% (17 DA-A) to 100% (7-14 DA-A), at rate 0.16 L/ha from 78.70% (14 DA-A) to 100% (7-14 DA-A).

The efficacy of the tested insecticide was comparable to the standard product Decis Mega 50 EW. In the trials efficacy amounted above 92.72% for Decis Mega 50 EW (Appendix 5. Table 26.).

### **Egg**

The efficiency of CHR/I/ADEL 280 SC in control of PEGOHY *Pegomya hyoscyami* were investigated in 2 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to the medium level of efficacy DA-A 7. The effectiveness fluctuated from 30.80% to 57.75%.

The effectiveness fluctuated at rate 0.06 L/ha from 28.50% (7 DA-A) to 33.10% (7 DA-A), at rate 0.08 L/ha from 43.20% (7 DA-A) to 50.00% (7 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 34.60% (7 DA-A) to 52.70% (7 DA-A), at rate 0.10 L/ha from 44.80% (7 DA-A) to 56.60% (7 DA-A), at rate 0.12 L/ha from 49.50% (7 DA-A) to 59.10% (7 DA-A), at rate 0.14 L/ha from 61.20% (7 DA-A) to 61.80% (7 DA-A), at rate 0.16 L/ha from 52.70% (7 DA-A) to 62.80% (7 DA-A).

The efficacy of the tested insecticide was higher than the standard product Decis Mega 50 EW. In the trials efficacy amounted above 33.00% for Decis Mega 50 EW (Appendix 5. Table 27.).

### **Mine**

The efficiency of CHR/I/ADEL 280 SC in control of PEGOHY *Pegomya hyoscyami* were investigated in 2 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to the high level of efficacy DA-A 7-15. The effectiveness fluctuated from 58.20% to 95.18%.

The effectiveness fluctuated at rate 0.06 L/ha from 48.70% (7 DA-A) to 64.70% (15 DA-A), at rate 0.08 L/ha from 67.20% (14 DA-A) to 86.80% (15 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 76.30% (14 DA-A) to 85.90% (15 DA-A), at rate 0.10 L/ha from 82.80% (7 DA-A) to 94.90% (15 DA-A), at rate 0.12 L/ha from 81.90% (7 DA-A) to 95.80% (14 DA-A), at rate 0.14 L/ha from 84.50% (7 DA-A) to 100% (7-14 DA-A), at rate 0.16 L/ha from 86.00% (7 DA-A) to 100% (7 DA-A).

The efficacy of the tested insecticide was higher than the standard product Decis Mega 50 EW. In the trials efficacy amounted above 30.90% for Decis Mega 50 EW (Appendix 5. Table 28.).

### **Leaf damage**

The efficiency of CHR/I/ADEL 280 SC in control of PEGOHY *Pegomya hyoscyami* were investigated in 2 trials. The tested product at rates: 0.06, 0.08, 0.10, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent+ 0.10 L/ha controlled this insect at the low to the high level of efficacy DA-A 7-15. The effectiveness fluctuated from 58.90% to 96.08%.

The effectiveness fluctuated at rate 0.06 L/ha from 47.80% (7 DA-A) to 69.80% (15 DA-A), at rate 0.08 L/ha from 62.70% (14 DA-A) to 80.10% (15 DA-A), at rate 0.08 + Asystent+ 0.10 L/ha from 76.40% (14 DA-A) to 90.80% (7 DA-A), at rate 0.10 L/ha from 81.70% (15 DA-A) to 89.10% (7 DA-A), at rate 0.12 L/ha from 81.70% (15 DA-A) to 94.60% (14 DA-A), at rate 0.14 L/ha from 91.80% (7 DA-A) to 100% (7-14 DA-A), at rate 0.16 L/ha from 90.40% (7 DA-A) to 100% (7 DA-A).

The efficacy of the tested insecticide was higher than the standard product Decis Mega 50 EW. In the trials efficacy amounted above 30.78% for Decis Mega 50 EW (Appendix 5. Table 29.).

### **Conclusions on the biological efficacy 2019, 2020 and 2021**

The obtained data in performed trials show CHR/I/ADEL 280 SC provides benefits against the most important insects in winter oilseed rape, winter wheat, winter triticale and sugar beet. On the basis of submitted research, it is possible to state that CHR/I/ADEL 280 SC used at dose controlled:

### Winter oilseed rape in autumn application

#### Dose CHR/I/ADEL 280 SC 0.06 L/ha

Limiting the number of pest: *Athalia rosae/Athalia* ATALCO/ATALAG, *Myzus persicae* MYZUPE

Medium effectively protect: *Myzus persicae/ Brevicoryne brassicae* MYZUPE/BRVCBR

Effectively protect: *Brevicoryne brassicae* BRVCBR

#### Dose CHR/I/ADEL 280 SC 0.08 L/ha

Medium effectively protect: *Athalia rosae/Athalia* ATALCO/ATALAG, *Myzus persicae* MYZUPE

Effectively protect: *Brevicoryne brassicae* BRVCBR, *Myzus persicae/ Brevicoryne brassicae* MYZUPE/BRVCBR

#### Dose CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha

Medium effectively protect: *Athalia rosae/Athalia* ATALCO/ATALAG

Effectively protect: *Brevicoryne brassicae* BRVCBR, *Myzus persicae* MYZUPE, *Myzus persicae/ Brevicoryne brassicae* MYZUPE/BRVCBR

#### Dose CHR/I/ADEL 280 SC 0.10 L/ha

Medium effectively protect: *Athalia rosae/Athalia* ATALCO/ATALAG, *Myzus persicae* MYZUPE

Effectively protect: *Brevicoryne brassicae* BRVCBR, *Myzus persicae/ Brevicoryne brassicae* MYZUPE/BRVCBR

#### Dose CHR/I/ADEL 280 SC 0.12 L/ha

Effectively protect: *Athalia rosae/Athalia* ATALCO/ATALAG, *Brevicoryne brassicae* BRVCBR, *Myzus persicae* MYZUPE, *Myzus persicae/ Brevicoryne brassicae* MYZUPE/BRVCBR

#### Dose CHR/I/ADEL 280 SC 0.14 L/ha

Effectively protect: *Athalia rosae/Athalia* ATALCO/ATALAG, *Brevicoryne brassicae* BRVCBR, *Myzus persicae* MYZUPE, *Myzus persicae/ Brevicoryne brassicae* MYZUPE/BRVCBR

#### Dose CHR/I/ADEL 280 SC 0.16 L/ha

Effectively protect: *Athalia rosae/Athalia* ATALCO/ATALAG, *Brevicoryne brassicae* BRVCBR, *Myzus persicae* MYZUPE, *Myzus persicae/ Brevicoryne brassicae* MYZUPE/BRVCBR

### Winter oilseed rape in spring application

#### Dose CHR/I/ADEL 280 SC 0.06 L/ha

Limiting the number of pest: *Ceutorhynchus quadridens*, syn. *C. pallidactylus* CEUTQU, *Ceutorhynchus napi* CEUTNA, *Ceutorhynchus assimilis* CEUTPL, *Ceutorhynchus assimilis* CEUTPL egg, *Dasineura brassicae* DASYBR

Medium effectively protect: *Brassicogethes aeneus* syn. *Meligethes aeneus* MELIAE

**Dose CHR/I/ADEL 280 SC 0.08 L/ha**

Limiting the number of pest: *Ceutorhynchus quadridens*, syn. *C. pallidactylus* CEUTQU, *Ceutorhynchus napi* CEUTNA,

Medium effectively protect: *Brassicogethes aeneus* syn. *Meligethes aeneus* MELIAE, *Ceutorhynchus assimilis* CEUTPL, *Dasineura brassicae* DASYBR

Effectively protect: *Ceutorhynchus assimilis* CEUTPL egg

**Dose CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha**

Medium effectively protect: *Ceutorhynchus quadridens*, syn. *C. pallidactylus* CEUTQU, *Ceutorhynchus napi* CEUTNA, *Brassicogethes aeneus* syn. *Meligethes aeneus* MELIAE, *Dasineura brassicae* DASYBR, *Ceutorhynchus assimilis* CEUTPL

Effectively protect: *Ceutorhynchus assimilis* CEUTPL egg

**Dose CHR/I/ADEL 280 SC 0.10 L/ha**

Limiting the number of pest: *Ceutorhynchus quadridens*, syn. *C. pallidactylus* CEUTQU, *Ceutorhynchus napi* CEUTNA

Medium effectively protect: *Brassicogethes aeneus* syn. *Meligethes aeneus* MELIAE, *Dasineura brassicae* DASYBR, *Ceutorhynchus assimilis* CEUTPL

Effectively protect: *Ceutorhynchus assimilis* CEUTPL egg

**Dose CHR/I/ADEL 280 SC 0.12 L/ha**

Medium effectively protect: *Ceutorhynchus quadridens*, syn. *C. pallidactylus* CEUTQU, *Ceutorhynchus napi* CEUTNA, *Brassicogethes aeneus* syn. *Meligethes aeneus* MELIAE, *Dasineura brassicae* DASYBR

Effectively protect: *Ceutorhynchus assimilis* CEUTPL, *Ceutorhynchus assimilis* CEUTPL egg

**Dose CHR/I/ADEL 280 SC 0.14 L/ha**

Medium effectively protect: *Ceutorhynchus quadridens*, syn. *C. pallidactylus* CEUTQU, *Ceutorhynchus napi* CEUTNA, *Dasineura brassicae* DASYBR

Effectively protect: *Brassicogethes aeneus* syn. *Meligethes aeneus* MELIAE, *Ceutorhynchus assimilis* CEUTPL, *Ceutorhynchus assimilis* CEUTPL egg

**Dose CHR/I/ADEL 280 SC 0.16 L/ha**

Medium effectively protect: *Ceutorhynchus quadridens*, syn. *C. pallidactylus* CEUTQU, *Ceutorhynchus napi* CEUTNA

Effectively protect: *Brassicogethes aeneus* syn. *Meligethes aeneus* MELIAE, *Dasineura brassicae* DASYBR, *Ceutorhynchus assimilis* CEUTPL, *Ceutorhynchus assimilis* CEUTPL egg

**Winter wheat:**

**Dose CHR/I/ADEL 280 SC 0.06 L/ha**

Limiting the number of pest: *Thrips* sp. THRISP

Medium effectively protect: *Sitobion avenae* MACSAV, *Sitobion avenae/Metopolophium dirhodum/Rhopalosiphum padi* MASCAV/ METODR/ RHOPPA

Effectively protect: *Metopolophium dirhodum* METODR, *Rhopalosiphum padi* RHOPPA

**Dose CHR/I/ADEL 280 SC 0.08 L/ha**

Medium effectively protect: *Sitobion avenae* MACSAV, *Thrips* sp. THRISP

Effectively protect: *Metopolophium dirhodum* METODR, *Rhopalosiphum padi* RHOPPA, *Sitobion avenae*/Metopolophium dirhodum/Rhopalosiphum padi MASCAV/ METODR/ RHOPPA

**Dose CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha**

Medium effectively protect: *Thrips* sp. THRISP

Effectively protect: *Sitobion avenae* MACSAV, *Metopolophium dirhodum* METODR, *Rhopalosiphum padi* RHOPPA, *Sitobion avenae*/Metopolophium dirhodum/Rhopalosiphum padi MASCAV/ METODR/ RHOPPA

**Dose CHR/I/ADEL 280 SC 0.10 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Metopolophium dirhodum* METODR, *Rhopalosiphum padi* RHOPPA, *Sitobion avenae*/Metopolophium dirhodum/Rhopalosiphum padi MASCAV/ METODR/ RHOPPA, *Thrips* sp. THRISP

**Dose CHR/I/ADEL 280 SC 0.12 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Metopolophium dirhodum* METODR, *Rhopalosiphum padi* RHOPPA, *Sitobion avenae*/Metopolophium dirhodum/Rhopalosiphum padi MASCAV/ METODR/ RHOPPA, *Thrips* sp. THRISP

**Dose CHR/I/ADEL 280 SC 0.14 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Metopolophium dirhodum* METODR, *Rhopalosiphum padi* RHOPPA, *Sitobion avenae*/Metopolophium dirhodum/Rhopalosiphum padi MASCAV/ METODR/ RHOPPA, *Thrips* sp. THRISP

**Dose CHR/I/ADEL 280 SC 0.16 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Metopolophium dirhodum* METODR, *Rhopalosiphum padi* RHOPPA, *Sitobion avenae*/Metopolophium dirhodum/Rhopalosiphum padi MASCAV/ METODR/ RHOPPA, *Thrips* sp. THRISP

**Winter triticale:**

**Dose CHR/I/ADEL 280 SC 0.06 L/ha**

Medium effectively protect: *Sitobion avenae* MACSAV, *Sitobion avenae*/ *Rhopalosiphum padi* MASCAV/ RHOPPA, *Thrips* sp. THRISP

Effectively protect: *Rhopalosiphum padi* RHOPPA

**Dose CHR/I/ADEL 280 SC 0.08 L/ha**

Medium effectively protect: *Sitobion avenae* MACSAV, *Thrips* sp. THRISP

Effectively protect: *Sitobion avenae*/ *Rhopalosiphum padi* MASCAV/RHOPPA, *Rhopalosiphum padi* RHOPPA

**Dose CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha**

Medium effectively protect: *Thrips* sp. THRISP

Effectively protect: *Sitobion avenae* MACSAV, *Sitobion avenae*/ *Rhopalosiphum padi* MASCAV/RHOPPA, *Rhopalosiphum padi* RHOPPA

**Dose CHR/I/ADEL 280 SC 0.10 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Sitobion avenae/ Rhopalosiphum padi* MAS-CAV/RHOPPA, *Rhopalosiphum padi* RHOPPA, *Thrips* sp. THRISP

**Dose CHR/I/ADEL 280 SC 0.12 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Sitobion avenae/ Rhopalosiphum padi* MAS-CAV/RHOPPA, *Rhopalosiphum padi* RHOPPA, *Thrips* sp. THRISP

**Dose CHR/I/ADEL 280 SC 0.14 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Sitobion avenae/ Rhopalosiphum padi* MAS-CAV/RHOPPA, *Rhopalosiphum padi* RHOPPA, *Thrips* sp. THRISP

**Dose CHR/I/ADEL 280 SC 0.16 L/ha**

Effectively protect: *Sitobion avenae* MACSAV, *Sitobion avenae/ Rhopalosiphum padi* MAS-CAV/RHOPPA, *Rhopalosiphum padi* RHOPPA, *Thrips* sp. THRISP

**Sugar beet**

**Dose CHR/I/ADEL 280 SC 0.06 L/ha**

Limiting the number of pest: *Pegomya hyoscyami* PEGOHY larva, *Pegomya hyoscyami* PEGOHY egg

Medium effectively protect: *Aphis* sp. APHISP/*Aphis fabae* APHIFA

**Dose CHR/I/ADEL 280 SC 0.08 L/ha**

Limiting the number of pest: *Pegomya hyoscyami* PEGOHY egg

Medium effectively protect: *Aphis* sp. APHISP/*Aphis fabae* APHIFA,

Effectively protect: *Pegomya hyoscyami* PEGOHY larva

**Dose CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha**

Limiting the number of pest: *Pegomya hyoscyami* PEGOHY egg

Medium effectively protect: *Aphis* sp. APHISP/*Aphis fabae* APHIFA,

Effectively protect: *Pegomya hyoscyami* PEGOHY larva

**Dose CHR/I/ADEL 280 SC 0.10 L/ha**

Limiting the number of pest: *Pegomya hyoscyami* PEGOHY egg

Medium effectively protect: *Aphis* sp. APHISP/*Aphis fabae* APHIFA,

Effectively protect: *Pegomya hyoscyami* PEGOHY larva

**Dose CHR/I/ADEL 280 SC 0.12 L/ha**

Limiting the number of pest: *Pegomya hyoscyami* PEGOHY egg

Medium effectively protect: *Aphis* sp. APHISP/*Aphis fabae* APHIFA,

Effectively protect: *Pegomya hyoscyami* PEGOHY larva

**Dose CHR/I/ADEL 280 SC 0.14 L/ha**

Medium effectively protect: *Pegomya hyoscyami* PEGOHY egg

Effectively protect: *Aphis* sp. APHISP/*Aphis fabae* APHIFA, *Pegomya hyoscyami* PEGOHY

**Dose CHR/I/ADEL 280 SC 0.16 L/ha**

Limiting the number of pest: *Pegomya hyoscyami* PEGOHY egg

Effectively protect: *Aphis* sp. APHISP/*Aphis fabae* APHIFA, *Pegomya hyoscyami* PEGOHY



**Table 3.2-1: Efficacy of product CHR/I/ADEL 280 SC at the timing of assessment.**

**Winter oilseed rape in autumn application**

Target	CHR/I/ADEL 280 SC at rate	Number of trials	Infestation in the untreated control (unit)		% control						No. of trials where product is >, <, = compared to standard(s)**
					CHR/I/ADEL 280 SC		Los Ovados 200 SE at rate 0.25 L/ha + Asys-tent+ at rate 0.1 L/ha		Decis Mega 50 EW at rate 0.15 L/ha		
			Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	
<i>Athalia</i> sp./ <i>Athalia rosae</i>	0.06 L/ha	8	0.95	0.38 & 1.30	56.91	19.00 & 86.20	59.40	6.00 & 98.20	92.93	80.00 & 100	-
	0.08 L/ha		-	-	63.01	18.00 & 93.60	-	-	-	-	-
	0.08 g/L + Asys-tent+ 0.1 g/L		-	-	72.12	44.48 & 94.50	-	-	-	-	-
	0.10 L/ha		-	-	72.52	32.00 & 93.30	-	-	-	-	-
	0.12 L/ha		-	-	80.35	54.00 & 93.80	-	-	-	-	-
	0.14 L/ha		-	-	84.90	62.00 & 97.20	-	-	-	-	-
	0.16 L/ha		-	-	89.57	70.00 & 97.30	-	-	-	-	-
<i>Brevicoryne bras-sicae</i>	0.06 L/ha	4	8.10	7.10 & 9.30	90.85	86.30 & 96.60	97.13	91.40 & 100	41.15	32.90 & 62.80	-
	0.08 L/ha		-	-	93.33	87.10 & 96.00	-	-	-	-	-
	0.08 g/L + Asys-tent+ 0.1 g/L		-	-	95.20	89.10 & 99.10	-	-	-	-	-
	0.10 L/ha		-	-	98.70	97.80 & 100	-	-	-	-	-
	0.12 L/ha		-	-	99.28	98.40 & 100	-	-	-	-	-

	0.14 L/ha		-	-	98.95	98.20 & 100	-	-	-	-	-
	0.16 L/ha		-	-	97.65	91.20 & 100	-	-	-	-	-
<i>Myzus persicae</i>	0.06 L/ha	4	6.57	1.46 & 13.70	59.95	35.00 & 90.40	86.00	63.00 & 100	59.60	39.00 & 73.50	-
	0.08 L/ha		-	-	74.80	49.00 & 98.90	-	-	-	-	-
	0.08 g/L + Asys- tent+ 0.1 g/L		-	-	81.00	52.00 & 100	-	-	-	-	-
	0.10 L/ha		-	-	79.23	56.00 & 100	-	-	-	-	-
	0.12 L/ha		-	-	84.25	61.00 & 100	-	-	-	-	-
	0.14 L/ha		-	-	87.50	67.00 & 100	-	-	-	-	-
	0.16 L/ha		-	-	87.25	69.00 & 100	-	-	-	-	-
<i>Aphidula/ Brevi- coryne brassicae/</i> <i>Myzus persicae</i>	0.06 L/ha	8	6.02	0.60 & 13.70	76.42	35.00 & 90.40	92.09	63.00 & 100	57.79	32.90 & 92.40	-
	0.08 L/ha		-	-	84.80	49.00 & 98.90	-	-	-	-	-
	0.08 g/L + Asys- tent+ 0.1 g/L		-	-	88.78	52.00 & 100	-	-	-	-	-
	0.10 L/ha		-	-	89.44	56.00 & 100	-	-	-	-	-
	0.12 L/ha		-	-	92.03	61.00 & 100	-	-	-	-	-
	0.14 L/ha		-	-	93.66	67.00 & 100	-	-	-	-	-
	0.16 L/ha		-	-	92.97	69.00 & 100	-	-	-	-	-

\* 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 in spring application

Target	CHR/I/ADEL 280 SC at rate	Number of trials	Infestation in the untreated control (unit)		% control								No. of trials where product is >, <, = compared to standard(s)**
					CHR/I/ADEL 280 SC		Los Ovados 200 SE at rate 0.25 L/ha + Asystent+ at rate 0.1 L/ha		Decis Mega 50 EW at rate 0.15 L/ha		Inazuma 130 WG at rate 0.2 kg/ha		
			Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	
<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	0.06 L/ha	10	10.10	3.90 & 34.00	39.34	4.00 & 52.20	-	-	78.01	58.00 & 90.10	76.72	65.00 & 87.20	-
	0.08 L/ha		-	-	53.70	36.80 & 78.00	-	-	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	66.69	50.40 & 87.50	-	-	-	-	-	-	-
	0.10 L/ha		-	-	57.59	30.30 & 82.90	-	-	-	-	-	-	-
	0.12 L/ha		-	-	65.86	57.00 & 78.10	-	-	-	-	-	-	-
	0.14 L/ha		-	-	71.32	62.60 & 88.30	-	-	-	-	-	-	-
	0.16 L/ha		-	-	73.35	57.30 & 87.50	-	-	-	-	-	-	-
<i>Ceutorhynchus napi</i>	0.06 L/ha	9	5.70	2.00 & 9.10	47.26	32.60 & 57.70	-	-	82.56	72.10 & 90.10	74.39	64.70 & 97.20	-
	0.08 L/ha		-	-	57.18	34.10 & 78.00	-	-	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	64.61	37.00 & 87.50	-	-	-	-	-	-	-
	0.10 L/ha		-	-	59.72	30.30 & 82.90	-	-	-	-	-	-	-
	0.12 L/ha		-	-	66.06	41.50 & 78.10	-	-	-	-	-	-	-

	0.14 L/ha		-	-	72.16	60.40 & 88.30	-	-	-	-	-	-	-
	0.16 L/ha		-	-	74.33	57.30 & 87.50	-	-	-	-	-	-	-
<i>Brassicogethes aeneus syn. Meliget-hes aeneus</i>	0.06 L/ha	8	3.06	0.50 & 5.20	64.69	27.10 & 84.41	76.93	47.90 & 96.00	73.28	44.40 & 95.10	77.50	44.10 & 95.60	-
	0.08 L/ha		-	-	69.31	36.90 & 89.00	-	-	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	73.59	45.20 & 91.70	-	-	-	-	-	-	-
	0.10 L/ha		-	-	74.81	39.00 & 94.00	-	-	-	-	-	-	-
	0.12 L/ha		-	-	79.83	48.70 & 94.60	-	-	-	-	-	-	-
	0.14 L/ha		-	-	83.21	50.97 & 97.00	-	-	-	-	-	-	-
	0.16 L/ha		-	-	84.85	51.05 & 98.42	-	-	-	-	-	-	-
<i>Ceutorhynchus assimilis</i>	0.06 L/ha	8	3.06	0.03 & 11.00	55.24	38.00 & 72.90	72.01	35.00 & 92.40	65.60	31.80 & 92.00	74.94	45.50 & 100	-
	0.08 L/ha		-	-	65.71	40.90 & 82.40	-	-	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	74.31	45.50 & 100	-	-	-	-	-	-	-
	0.10 L/ha		-	-	78.76	62.00 & 100	-	-	-	-	-	-	-
	0.12 L/ha		-	-	81.76	64.30 & 100	-	-	-	-	-	-	-
	0.14 L/ha		-	-	83.66	66.80 & 100	-	-	-	-	-	-	-
	0.16 L/ha		-	-	82.76	68.30 & 100	-	-	-	-	-	-	-
<i>Ceutorhynchus assimilis</i> egg	0.06 L/ha	2	3.06	0.03 & 11.00	38.00	27.00 & 49.00	74.00	69.00 & 79.00	83.50	75.00 & 92.00	92.50	85.00 & 100	-

	0.08 L/ha		-	-	82.00	75.00 & 89.00	-	-	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	87.00	84.00 & 90.00	-	-	-	-	-	-	-
	0.10 L/ha		-	-	81.50	78.00 & 85.00	-	-	-	-	-	-	-
	0.12 L/ha		-	-	86.50	82.00 & 91.00	-	-	-	-	-	-	-
	0.14 L/ha		-	-	93.50	87.00 & 100	-	-	-	-	-	-	-
	0.16 L/ha		-	-	91.00	82.00 & 100	-	-	-	-	-	-	-
<i>Dasineura brassicae</i>	0.06 L/ha	7	9.14	0.33 & 59.50	58.84	27.00 & 74.30	80.340	50.00 & 100	65.74	52.70 & 82.00	76.01	64.30 & 85.10	-
	0.08 L/ha		-	-	67.86	50.00 & 81.40	-	-	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	74.40	57.00 & 83.40	-	-	-	-	-	-	-
	0.10 L/ha		-	-	76.13	59.00 & 88.40	-	-	-	-	-	-	-
	0.12 L/ha		-	-	78.04	64.00 & 87.60	-	-	-	-	-	-	-
	0.14 L/ha		-	-	78.96	69.00 & 88.20	-	-	-	-	-	-	-
	0.16 L/ha		-	-	84.67	71.80 & 96.40	-	-	-	-	-	-	-

\* 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 wheat

Target	CHR/I/ADEL 280 SC at rate	Number of trials	Infestation in the un- treated control (unit)	% control	No. of trials where product
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					CHR/I/ADEL 280 SC		Decis Mega 50 EW at rate 0.13 L/ha		Fastac Active 50 ME at rate 0.30 L/ha		is >, <, = compared to standard(s)**
			Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	
<i>Sitobion avenae</i>	0.06 L/ha	8	3.82	1.10 & 6.98	71.45	29.71 & 100	94.21	66.99 & 100	95.28	74.26 & 100	-
	0.08 L/ha		-	-	79.45	32.87 & 100	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	86.67	46.20 & 100	-	-	-	-	-
	0.10 L/ha		-	-	88.63	54.77 & 100	-	-	-	-	-
	0.12 L/ha		-	-	91.70	63.01 & 100	-	-	-	-	-
	0.14 L/ha		-	-	94.68	68.76 & 100	-	-	-	-	-
	0.16 L/ha		-	-	96.13	75.83 & 100	-	-	-	-	-
<i>Thrips sp.</i>	0.06 L/ha	6	4.49	2.48 & 5.20	56.91	31.31 & 90.40	94.55	90.22 & 99.78	94.85	91.34 & 99.52	-
	0.08 L/ha		-	-	71.24	59.53 & 93.79	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	77.62	63.91 & 97.70	-	-	-	-	-
	0.10 L/ha		-	-	81.84	70.78 & 96.17	-	-	-	-	-
	0.12 L/ha		-	-	88.09	76.23 & 96.41	-	-	-	-	-
	0.14 L/ha		-	-	91.98	83.23 & 99.21	-	-	-	-	-
	0.16 L/ha		-	-	93.69	87.47 & 99.78	-	-	-	-	-

<i>Metopolophium dirhodum</i>	0.06 L/ha	1	2.60	2.20 & 3.00	100	100 & 100	100	100 & 100	100	100 & 100	-
	0.08 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	100	100 & 100	-	-	-	-	-
	0.10 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.12 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.14 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.16 L/ha		-	-	100	87.47 & 95.54	-	-	-	-	-
<i>Rhopalosiphum padi</i>	0.06 L/ha	1	1.15	0.70 & 1.60	86.90	73.80 & 100	100	100 & 100	100	100 & 100	-
	0.08 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	100	100 & 100	-	-	-	-	-
	0.10 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.12 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.14 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.16 L/ha		-	-	100	100 & 100	-	-	-	-	-
<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	0.06 L/ha	10	3.43	0.70 & 6.98	75.85	29.71 & 100	95.37	66.99 & 100	96.22	74.26 & 100	-
	0.08 L/ha		-	-	83.56	32.87 & 100	-	-	-	-	-
	0.08 g/L + Asystent+ 0.1 g/L		-	-	89.33	46.20 & 100	-	-	-	-	-

	0.10 L/ha		-	-	90.90	54.77 & 100	-	-	-	-	-
	0.12 L/ha		-	-	93.36	63.01 & 100	-	-	-	-	-
	0.14 L/ha		-	-	95.74	68.76 & 100	-	-	-	-	-
	0.16 L/ha		-	-	96.90	75.83 & 100	-	-	-	-	-

- \* 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 triticale

Target	CHR/I/ADEL 280 SC at rate	Number of trials	Infestation in the untreated control (unit)		% control						No. of trials where product is >, <, = compared to standard(s)**
					CHR/I/ADEL 280 SC		Decis Mega 50 EW at rate 0.13 L/ha		Fastac Active 50 ME at rate 0.30 L/ha		
			Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	
Sitobion avenae	0.06 L/ha	7	2.87	0.40 & 6.30	64.26	31.00 & 100	88.17	71.60 & 100	-	-	-
	0.08 L/ha		-	-	77.90	50.00 & 100	-	-	-	-	-
	0.08 g/L + Asys-tent+ 0.1 g/L		-	-	81.89	43.00 & 100	-	-	-	-	-
	0.10 L/ha		-	-	84.31	42.00 & 100	-	-	-	-	-
	0.12 L/ha		-	-	87.36	66.00 & 100	-	-	-	-	-
	0.14 L/ha		-	-	89.29	69.00 & 100	-	-	-	-	-
	0.16 L/ha		-	-	91.24	71.00 & 100	-	-	-	-	-

<i>Thrips</i> sp.	0.06 L/ha	8	6.27	2.30 & 14.48	68.12	47.01 & 94.81	-	-	95.90	89.11 & 100	-
	0.08 L/ha		-	-	75.30	50.66 & 96.17	-	-	-	-	-
	0.08 g/L + Asys- tent+ 0.1 g/L		-	-	79.68	54.52 & 97.51	-	-	-	-	-
	0.10 L/ha		-	-	83.63	61.14 & 97.73	-	-	-	-	-
	0.12 L/ha		-	-	86.47	69.89 & 98.22	-	-	-	-	-
	0.14 L/ha		-	-	91.63	77.50 & 100	-	-	-	-	-
	0.16 L/ha		-	-	94.07	81.00 & 100	-	-	-	-	-
<i>Rhopalosiphum padi</i>	0.06 L/ha	1	4.85	4.60 & 5.10	100	100 & 100	100	100 & 100	-	-	-
	0.08 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.08 g/L + Asys- tent+ 0.1 g/L		-	-	100	100 & 100	-	-	-	-	-
	0.10 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.12 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.14 L/ha		-	-	100	100 & 100	-	-	-	-	-
	0.16 L/ha		-	-	100	100 & 100	-	-	-	-	-
<i>Sitobion avenae/ Rhopalosiphum padi</i>	0.06 L/ha	8	3.12	0.40 & 6.30	68.73	31.00 & 100	90.14	71.60 & 100	-	-	-
	0.08 L/ha		-	-	80.66	50.00 & 100	-	-	-	-	-
	0.08 g/L + Asys- tent+ 0.1 g/L		-	-	84.15	43.00 & 100	-	-	-	-	-
	0.10 L/ha		-	-	86.28	42.00 & 100	-	-	-	-	-

	0.12 L/ha		-	-	88.94	66.00 & 100	-	-	-	-	-
	0.14 L/ha		-	-	90.63	69.00 & 100	-	-	-	-	-
	0.16 L/ha		-	-	92.34	71.00 & 100	-	-	-	-	-

\* 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

Target	CHR/I/ADEL 280 SC at rate	Number of trials	Infestation in the untreated control (unit)		% control				No. of trials where product is >, <, = compared to standard(s)**
					CHR/I/ADEL 280 SC		Decis Mega 50 EW at rate 0.2 L/ha		
			Mean	Min & Max	Mean	Min & Max	Mean	Min & Max	
<i>Aphis</i> sp./ <i>Aphis fabae</i>	0.06 L/ha	8	24.89	0.80 & 147.90	62.34	18.30 & 88.28	69.95	17.50 & 100	-
	0.08 L/ha		-	-	72.48	24.10 & 90.05	-	-	-
	0.08 g/L + Asys-tent+ 0.1 g/L		-	-	77.37	29.20 & 92.70	-	-	-
	0.10 L/ha		-	-	77.88	29.50 & 95.80	-	-	-
	0.12 L/ha		-	-	79.37	29.00 & 95.60	-	-	-
	0.14 L/ha		-	-	82.16	25.30 & 99.20	-	-	-
	0.16 L/ha		-	-	85.13	36.20 & 100	-	-	-
<i>Pegomya hyoscyami</i> larva	0.06 L/ha	6	5.35	0.75 & 15.80	68.32	53.80 & 88.20	92.72	84.70 & 100	-
	0.08 L/ha		-	-	83.88	69.20 & 100	-	-	-



	0.08 g/L + Asys- tent+ 0.1 g/L		-	-	85.64	71.20 & 100	-	-	-
	0.10 L/ha		-	-	87.24	76.60 & 100	-	-	-
	0.12 L/ha		-	-	87.08	76.60 & 100	-	-	-
	0.14 L/ha		-	-	89.61	81.70 & 100	-	-	-
	0.16 L/ha		-	-	90.85	78.70 & 100	-	-	-
<i>Pegomya hyoscyami</i> egg	0.06 L/ha	2	2.90	2.30 & 3.50	30.80	28.50 & 33.10	33.00	4.70 & 61.30	-
	0.08 L/ha		-	-	46.60	43.20 & 50.00	-	-	-
	0.08 g/L + Asys- tent+ 0.1 g/L		-	-	43.65	34.60 & 52.70	-	-	-
	0.10 L/ha		-	-	50.70	44.80 & 56.60	-	-	-
	0.12 L/ha		-	-	54.30	49.50 & 59.10	-	-	-
	0.14 L/ha		-	-	61.50	61.20 & 61.80	-	-	-
	0.16 L/ha		-	-	57.75	52.70 & 61.30	-	-	-

\* 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

## 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

Study Comments: 3.2.3 dRR point 3.2.3	
EN: Evaluator conclusion: <b>Control of insect pests in PL</b>  The applicant submitted 91 trials (winter oilseed rape 50 trails, winter wheat 10 trials, winter triticale 15 trials, sugar beet 16 trials) carried out in 2019, 2020 and 2021, in different region in Poland:  - on winter oil seed rape (BBCH 10-21, an autumn application) against:  <i>Athalia rosae</i> (ATALCO) - 8 trials <i>Brevicoryne brassicae</i> (BRVCBR) – 4 trials <i>Myzus persicae</i> (MYZUPE) – 4 trials  - on winter oil seed rape (BBCH 30-70, a spring application) against:  <i>Ceutorhynchus napi</i> (CEUTNA) –5 trials; <i>Ceutorhynchus assimilis</i> (CEUTPL) – 8 trials <i>Ceutorhynchus pallidactylus</i> (CEUTQU) – 6 trials; <i>Dasineura brassicae</i> (DASYBR) - 7 trials; <i>Meligethes aeneus</i> (MELIAE) - 8 trials  - on winter wheat (BBCH 65-76) against:  <i>Sitobion avenae</i> (MACSAV) - 8 trials <i>Metopolophium dirhodum</i> (METODR) – 1 trial <i>Rhopalosiphum padi</i> (RHOPPA) - 1 trial <i>Thrips</i> sp. (THRISP) - 6 trials  - on winter triticale (BBCH 49-77) against:  <i>Sitobion avenae</i> (MACSAV) - 7 trials <i>Rhopalosiphum padi</i> (RHOPPA) - 1 trial <i>Thrips</i> sp. (THRISP) - 8 trials  - on sugar beet (BBCH 12-19) against:	

*Aphis fabae* (APHIFA) - 7 trial  
*Pegomya hyoscyami* (PEGOHY) - 8 trial

Efficacy trials were carried out by organizations that are officially recognized as competent to carry out efficacy testing in accordance with Regulation (EC) 284/2013. All trials have been conducted according to GEP.

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

1. PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice.
3. PP 1/135 (4) Phytotoxicity assessment
4. PP 1/152 (4) Design and analysis of efficacy evaluation trials
- PP 1/233(1) *Athalia r.*, *Plutella x.* and *Autographa g.* on arable *Brassicaceae*
- PP 1/228(2) Aphids on beet
- PP 1/229(1) Aphids on leguminous crops
- PP 1/230(1) Aphids on potato
- PP 1/24(2) Aphids on potato, sugar beet, pea, broad bean and other vegetables
- PP 1/20(3) Aphids on cereals
- PP 1/85(3) *Thrips* on outdoor crops
- PP 1/209(2) *Pegomya spp.* on beet and spinach
5. PP 1/178 *Meligethes aenus* on oilseed rape
7. PP 1/219 *Ceutorhynchus napi* and *C. pallidactylus (quadridens)* in OSR
10. PP 1/107 *Ceutorhynchus assimilis*
11. PP 1/220 *Dasineura brassicae*

Results of experiments (data on effectiveness) are contained in Appendix 4.

Trials were conducted in Poland (the NE EPPO climatic zone). Trials were of randomized block design with a minimum of four replicates. Details on trial sites, applications are contained in Appendix 3.

The tested insecticide was applied at the rates: 0,06; 0,08; 0,1; 0,12; 0,14; 0,16 L/ha and 0,08 + Asystent + 0,1 L/ha of CHR/I/ADEL 280 SC (spray volume 200 – 300 l/ha) on winter oilseed rape, winter wheat, winter triticale and sugar beet as a single post-emergence application against insect pests.

In the section 3.2.3, efficacy all doses were tested and the dose rate of **0,16 L/ha** applied once a season in winter oilseed rape, winter wheat, winter triticale and sugar beet has demonstrated a good pest control and were considered as the **minimum effective doses**. The dossier was evaluated initially for the dose rate 0,16 L/ha. The final conclusion were following:

To sum up, it might be concluded that the post-emergence application of CHR/I/ADEL 280 SC provides benefit and controls pest on the high level of 70 - 100% at 0,16 l/ha dose rate against:

- ATALCO (E), BRVCBR (E), MYZUPE (E), CEUTQU (M), CEUTNA (M), MELIAE (E), CEUTPL (E larvae and eggs), DASYBR (E) on winter oil seed rape comparable or better with standard products: Los Ovados 200 SE + Asystent, Decis Mega 50 EW, Inazuma 130 WG;
- MACSAV (E), METODOR (E), RHOPPA (E), THRISP (E) on winter wheat comparable or better with standard products: Decis Mega 50 EW and Fastac Active 50 ME;
- MACSAV (E), RHOPPA (E), THRISP (E) on winter triticale comparable or better with standard product Decis Mega 50 EW;
- APHIFA (E), PEGOHY (E - for larvae stadium and L - limitatig control level of 60% for egss stadium of insect) on sugar beet comparable or better with standard product Decis Mega 50 EW.

However, during the evaluation, the applicant changed the maximum effective dose in the GAP table from 0,16 L/ha to 0,08 L/ha, explaining this change by the risk of in ecotoxicology section

and asking for re-evaluation of the efficacy of the product at a maximum dose of 0,08 L/ha. It has to be underlined that the dose rate 0,08 L/ha does not constitute the minimum effective dose rate in the light of EPPO standard PP 1/225 (2) Minimum effective dose.

~~Due to risk in ecotoxicology section, the Applicant requested for modification in dose from 0,16 L/ha to 0,08 L/ha.~~ The dossier was re-evaluated for a dose of 0,08 L/ha of CHR/I/ADEL 280 SC.

Effectiveness of the product was described with the following indicators:

<b>E</b>	at least 80 % - effectively protect
<b>M</b>	60 % - 80% - medium effectively protect
<b>L</b>	less than or 40 % - 60 % - limiting the number of pest

Efficacy [%] against ATALCO in winter oilseed rape – the autumn application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2
Control of larvae on 1-3 DAA	63,5 (26,0 – 93,6)	58,8 (27,0 – 98,2)	90,8 (80,0 – 100)
Control of larvae on 7-9 DAA	62,5 (18,0 – 87,0)	59,8 (6,0 – 91,3)	95,0 (87,0 – 100)
Leaf area damage (UNTR-14,8 %)	4,6 (3,3 – 5,8)	5,1 (2,6 – 6,5)	3,8 (1,0 – 8,1)

The product medium effectively protected oilseed rape against ATALCO at the dose rate of 0,08 l/ha in the autumn application. That information should be included on the product label.

Efficacy [%] against BRVCBR in winter oilseed rape on 13-14 DAA– the autumn application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2
Control of larvae	95,8 (94,5 – 97,1)	97,1 (91,4 – 100)	41,5 (32,9 – 62,8)

Efficacy [%] against MYZUPE in winter oil seed rape on 13-14 DAA– the autumn application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2
Control of larvae	74,8 (49,0 – 98,9)	86,0 (63,0 – 100)	59,6 (39,0 – 73,5)

Efficacy of the product was evaluate taking into account 4 trials against BRVCBR and 4 trials against MYZUPE. The product effectively protected oilseed rape against BRVCBR and it protect-ed medium effectively oil seed rape against MYZUPE at the dose rate of 0,08 l/ha, in the autumn application. Additionally, 2 trials were presented, where there was no identification of aphids species. Those two reports are considered as supportive for efficacy assessment of the product against two above mentioned aphids species. The means efficacy in the reports amounted 88% and was comparable with reference products.

Nevertheless, to confirm efficacy of the product and to meet the requirements concerning the number of trials it is proposed to submit post-authorised 2-3 efficacy trials against BRVCBR and 2-3 efficacy trials against MYZUPE.

Information about medium efficacy of the dose rate 0,08 l/ha in protection of oil seed rape against MYZUPE should be included on the product label.

Efficacy [%] against CEUTQU in winter oilseed rape– the spring application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2
Control of larvae on 28	46,8 (42,3 – 52,4)	75,4 (58,0 – 88,8)	73,3 (65,0 – 86,9)

– 56 DAA			
Reduction of plant damage (2 trials) on 38-49 DAA	47,0 (46,0 – 48,0)	65,5 (63,0 – 68,0)	70,0 (69,0 – 71,0)
Reduction of stem damage (2 trials) on 38-49 DAA	46,0 (41,0 – 51,0)	71,5 (70,0 – 73,0)	71,5 (67,0 – 76,0)

The product limited the number of pest (CEUTQU) in oilseed rape at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Efficacy [%] against CEUTNA in winter oilseed rape – the spring application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2
Control of larvae on 45 – 64 DAA	51,7 (34,1 – 68,9)	83,1 (72,4 – 89,4)	68,5 (64,5 – 73,0)

The product limited the number of pest (CEUTNA) in oilseed rape at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Nevertheless, to confirm efficacy of the product and to meet the requirements concerning the number of trials it is proposed to submit post-authorised 1-2 efficacy trials against CEUTNA.

Additionally, 4 trials were presented, where there was no identification of species. Those four reports are considered as supportive for efficacy assessment of the product against CEUTQU and CEUTNA. The means efficacy in the reports amounted: 64,1% (control of larvae), 60,5% (reduction of plant damage), 64,7% (reduction of stem damage).

Efficacy [%] against MELIAE in winter oilseed rape - the spring application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2	Ref. 3
Control of adults on 1-2 DAA	72,4 (36,9 – 89,0)	78,6 (50,6 – 94,2)	75,9 (44,4 – 91,8)	83,0 (45,8 – 94,8)
Control of adults on 4-6 DAA	66,3 (47,2 – 85,7)	75,2 (47,9 – 96,0)	69,2 (52,6 – 85,0)	73,5 (44,1 – 95,6)
Control of adults on 7-9 DAA (6 trials)	52,1 (19,2 – 69,7)	59,3 (17,8 – 79,3)	50,3 (14,6 – 78,6)	61,5 (19,6 – 97,8)

The product medium effectively protected oilseed rape against MELIAE at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Efficacy [%] against CEUTPL in winter oilseed rape - the spring application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2	Ref. 3
Control of larvae on 22 - 28 DAA	65,7 (40,9 – 82,4)	72,0 (35,0 – 92,4)	65,6 (31,8 – 92)	74,9 (45,5 – 100)
Control of eggs on 28 DAA (2 trials)	77,0 (75,0 – 79,0)	74,0 (69,0 – 79,0)	83,5 (75,0 – 92,0)	92,5 (85,0 – 100)

The product medium effectively protected oilseed rape against CEUTPL at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Efficacy [%] against DASYBR in winter oilseed rape - the spring application

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2	Ref. 3
Reduction in the percentage of damaged pods on 14 - 28 DAA	67,9 (50,0 – 81,4)	80,3 (50,0 – 100)	65,7 (52,7 – 82,0)	76,0 (64,3 – 85,1)

The product medium effectively protected oilseed rape against DASYBR at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Efficacy [%] against MACSAV in winter wheat

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2
Control of all stages on 1 - 3 DAA	77,8 (45,1 – 98,23)	95,4 (89,9 – 100)	96,5 (88,6 – 100)
Control of all stages on 7 - 9 DAA	81,1 (32,9 – 100)	93,0 (67,0 – 100)	94,0 (74,3 – 100)

The product medium effectively protected winter wheat against MACSAV at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Efficacy [%] against THRISP in winter wheat

Type of ASS	0,08 L/ha	Ref. 1	Ref. 2
Control of adults on 1 - 3 DAA	71,2 (59,5 – 93,8)	94,5 (90,2 – 99,8)	94,8 (91,3 – 99,5)
Control of adults on 7 - 9 DAA	67,2 (26,9 – 95,4)	85,9 (52,7 - 100)	91,8 (69,1 – 99,4)

The product medium effectively protected winter wheat against THRISP at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Efficacy [%] against MACSAV in winter triticale

Type of ASS	0,08 L/ha	Ref. 1
Control of all stages on 2 - 3 DAA	76,6 (69,5 – 87,9)	86,0 (71,6 – 98,2)
Control of all stages on 7 - 9 DAA	79,3 (50,0 – 100)	90,3 (78,5 – 100)

The product medium effectively protected winter triticale against MACSAV at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

Efficacy [%] against THRISP in winter triticale

Type of ASS	0,08 L/ha	Ref. 1
Control of adults on 2 - 3 DAA	73,0 (51,5 – 96,2)	95,0 (89,1 – 99,8)
Control of adults on 7 - 8 DAA	77,7 (50,7 – 95,0)	96,8 (93,7 - 100)

The product medium effectively protected winter triticale against THRISP at the dose rate of 0,08 l/ha in the spring application. That information should be included on the product label.

The number of trials presented for METODR, RHOPPA in winter wheat and for RHOPPA in winter triticale is insufficient to conclude on efficacy of the product.

Efficacy [%] against APHIFA in sugar beet

Type of ASS	0,08 L/ha	Ref. 1
Control of all	65,5	65,6

stages on 1 - 3 DAA	(24,1 – 78,6)	(17,5 – 94,6)
Control of all stages on 7 - 9 DAA	75,2 (50,6 – 85,4)	69,0 (19,6 – 100)
Control of all stages on 12 - 14 DAA (4 trials)	79,7 (45,6 – 100)	71,6 (20,4 – 100)

Additionally, 1 trial was presented, where there was no an identification of species. This report is considered as supportive for efficacy assessment of the product against APHIFA. In the report efficacy amounted: 84,2% (3DAA), 90,0% (7DAA) and was comparable with reference products. The product medium effectively protected sugar beet against APHIFA at the dose rate of 0,08 l/ha. That information should be included on the product label.

Efficacy [%] against PEGOHY in sugar beet

Type of ASS	0,08 L/ha	Ref. 1
Control of larvae on 7-11 DAA	88,2 (75,5 – 100)	93,8 (84,7 – 100)
Control of larvae on 14 - 16 DAA	87,8 (74,5 – 100)	93,3 (86,0 – 100)
Control of larvae on 17 - 22 DAA	75,7 (69,2 – 79,0)	91,0 (86,5 – 95,2)
Control of eggs on 7 DAA (2 trials)	46,6 (43,2 - 50)	33,0 (4,7 – 61,3)
Control of mines (larvae) on 7 -15 DAA (2 trials)	75,3 (67,2 – 86,8)	30,9 (2,3 – 64,8)
Reduction in the percentage of leaf damaged on 7 -15 DAA (2 trials)	71,7 (62,7 – 80,1)	30,8 (12,0 – 57,5)

The product controlled effectively larvae stadium of insects but eggs cotroll was on lower level 46,6% described as limiting number of pest. The product controlled PEGONY larvae efficiently (E). In 6 trials, efficacy of the product was statistically comparable to the efficacy of the reference product and into two trials product performed much more better than the reference product. It should be noted that the dose of 0,16 l/ha gave numerically better results, at around 90% and above (see opinion below). Nevertheless, the dose rate 0,08 l/ha seems to ensure benefit in controlling PEGONY in sugar beet.

To sum up, it might be concluded that the post-emergence application of CHR/I/ADEL 280 SC provides benefit and controls pest on the medium level or limited the number of pest, at 0,08 l/ha dose rate against:

- ATALCO (ME), BRVCBR (E), MYZUPE (ME), CEUTQU (L), CEUTNA (L), MELIAE (ME), CEUTPL (ME), DASYBR (ME) on winter oil seed rape;
- MACSAV (ME), THRISP (ME) on winter wheat;
- MACSAV (ME), THRISP (ME) on winter triticales;
- APHIFA (ME), PEGOHY (E - for larvae stadium and L - limiting control level of 46,6% for eggs stadium of insect) on sugar beet

The number of trials presented for METODR, RHOPPA in winter wheat and for RHOPPA in winter triticales is insufficient to conclude on efficacy of the product.

To confirm presented efficacy of the product in oilseed rape it is proposed to submission post-authorised of 2-3 efficacy trials against BRVCBR and 2-3 efficacy trials against MYZUPE would



be needed.

To confirm presented efficacy of the product in oilseed rape ~~it is proposed to~~ submission post-  
authorised of 1-2 efficacy trials against CEUTNA would be needed.

Nevertheless, reducing the product dose by half (from 0.16 L/ha to 0.08 L/ha) significantly reduced the efficacy of the product against the pests tested. Satisfactory efficacy of 96% was only achieved by the product against BRVCBR in oilseed rape. However, in the opinion of ZRMS,

insufficient number of trials was presented by the applicant.

The risk owner has decided on the possibility of conditional authorisation of the product for this use. In view of the above, the evaluator proposes to submit at least six post-authorisation efficacy trials (optimal number of trials for a new mixture: 10 trials) confirming the mean efficacy of the product above 90%, at a dose of 0.08 l/ha.

Furthermore for pest control, the product at 0,08 l/ha showed much lower efficacy against all pests, than the reference products with one active substance. Compared to some of the reference products used in the trials, CHR/I/ADEL 280 SC showed a similar efficacy (against CEUTQU, CEUTNA, MELIAE, CEUTPL, ATALCO, MYZUPE). However, it should be noted that in both cases the efficacy was not satisfactory. Both products were moderately effective or limiting the number of pests. It is therefore worth returning to the assumption made when marketing a mixture of 2 substances, which should, in principle, give at least similar efficacy results to the reference product containing a single substance, and in the optimum solution this efficacy should be more satisfactory than for solo active substance product. This optimum solution was only provided by the dose of 0,16 l/ha.

Reducing the product dose by half (from 0,16 L/ha to 0,08 L/ha) induces yet another problem.

Using the optimum dose of plant protection products for maximum reduction of pests is a key point in a resistance management strategy. This is one of the elements that is strongly emphasised in IRAC recommendations. Reduced pesticide doses that do not provide high efficacy against pests can encourage the emergence of pest resistance. Surviving pests, over time, develop different types of resistance mechanisms that cause rapid detoxification of the active substances and further control of pests requires higher doses of insecticides or, in the worst case, the active substances become ineffective. This kind of resistance is resistance-inducing operational factors, namely the resistance arises from operational factors (Georgiou G. P., Taylor C. E. (1986). Factors influencing the evolution of resistance. Pestic. Resist. Strateg. tactics Manag. 157–619. Washington, DC: National Academies Press). In ZRMS opinion, reducing the product dose by half, not giving satisfactory efficacy, will have impact on pest resistance development.

Reduced dose of the product (0,08 l/ha) ensured satisfactory efficacy only against PEGONY in sugar beet. Therefore, dose rate of 0,08 l/ha may be recommended for protection of sugar beet against PEGONY.

Taking the above into account, a positive recommendation for registration of a dose of 0,08 L/ha in oilseed rape, cereals and sugar beet against APHIFA cannot be issued.

For the sake of transparency, the previous opinion on use of dose 0,16 L/ha was placed below.

**Comment from SI CMS:**

Trials evaluated in the document RR B3 were performed in Poland, which is located in the North – East EPPO zone, therefore results of trials cannot support approval of product Adel 280 EC in Slovenia.

Study Comments: 3.2.3

dRR point 3.2.3

EN: Evaluator conclusion:



#### Control of insect pests in PL (for the dose 0,16 L/ha)

The applicant submitted 91 trials (winter oilseed rape 50 trials, winter wheat 10 trials, winter triticale 15 trials, sugar beet 16 trials) carried out in 2019, 2020 and 2021, in different region in Poland:

- on winter oil seed rape (BBCH 10-21, an autumn application) against:

*Athalia rosae* (ATALCO) - 8 trials  
*Brevicoryne brassicae* (BRVCBR) – 4 trials  
*Myzus persicae* (MYZUPE) – 4 trials

- on winter oil seed rape (BBCH 30-70, a spring application) against:

*Ceutorhynchus napi* (CEUTNA) –6 trials;  
*Ceutorhynchus assimilis* (CEUTPL) – 8 trials  
*Ceutorhynchus pallidactylus* (CEUTQU) – 7 trials;  
*Dasineura brassicae* (DASYBR) - 7 trials;  
*Meligethes aeneus* (MELIAE) - 8 trials

- on winter wheat (BBCH 65-76) against:

*Sitobion avenae* (MACSAV) - 8 trials  
*Metopolophium dirhodum* (METODR) – 1 trial  
*Rhopalosiphum padi* (RHOPPA) - 1 trial  
*Thrips* sp. (THRISP) - 6 trials

- on winter triticale (BBCH 49-77) against:

*Sitobion avenae* (MACSAV) - 7 trials  
*Rhopalosiphum padi* (RHOPPA) - 1 trial  
*Thrips* sp. (THRISP) - 8 trials

- on sugar beet (BBCH 12-19) against:

*Aphis fabae* (APHIFA) - 7 trial  
*Pegomya hyoscyami* (PEGOHY) - 8 trial

Efficacy trials were carried out by organizations that are officially recognized as competent to carry out efficacy testing in accordance with Regulation (EC) 284/2013. All trials have been conducted according to GEP.

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

1. PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice.
3. PP 1/135 (4) Phytotoxicity assessment
4. PP 1/152 (4) Design and analysis of efficacy evaluation trials
- PP 1/233(1) *Athalia r.*, *Plutella x.* and *Autographa g.* on arable *Brassicaceae*
- PP 1/228(2) Aphids on beet
- PP 1/229(1) Aphids on leguminous crops
- PP 1/230(1) Aphids on potato
- PP 1/24(2) Aphids on potato, sugar beet, pea, broad bean and other vegetables
- PP 1/20(3) Aphids on cereals
- PP 1/85(3) *Thrips* on outdoor crops
- PP 1/209(2) *Pegomya spp.* on beet and spinach
5. PP 1/178 *Meligethes aenus* on oilseed rape
7. PP 1/219 *Ceutorhynchus napi* and *C. pallidactylus (quadridens)* in OSR
10. PP 1/107 *Ceutorhynchus assimilis*

#### 11. PP 1/220 *Dasineura brassicae*

Results of experiments (data on effectiveness) are contained in Appendix 4.

Trials were conducted in Poland (the NE EPPO climatic zone). Trials were of randomized block design with a minimum of four replicates. Details on trial sites, applications are contained in Appendix 3.

The tested insecticide was applied at the rates: 0,06; 0,08; 0,1; 0,12; 0,14; 0,16 L/ha and 0,08 + Asystent + 0,1 L/ha of CHR/I/ADEL 280 SC (spray volume 200 – 300 l/ha) on winter oilseed rape, winter wheat, winter triticale and sugar beet as a single post-emergence application against insect pests. The intended dose rate is 0,16 l/ha of CHR/I/ADEL 280 SC.

Effectiveness of the product was described with the following indicators:

<b>E</b>	at least 80 % - effectively protect
<b>M</b>	60 % - 80% - medium effectively protect
<b>L</b>	less than or 40 % - 60 % - limiting the number of pest

Efficacy [%] against ATALCO in winter oil seed rape – the autumn application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of larvae on 1-3 DAA	87,1 (70,0 – 97,3)	58,8 (27,0 – 98,2)	90,8 (80,0 – 100)
Control of larvae on 7-9 DAA	92,0 (84,0 – 96,6)	59,8 (6,0 – 91,3)	95,0 (87,0 – 100)
Leaf area damage (UNTR-14,8 %)	2,7 (1,5 – 4,0)	5,1 (2,6 – 6,5)	3,8 (1,0 – 8,1)

Efficacy [%] against BRVCBR in winter oil seed rape on 13-14 DAA– the autumn application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of larvae	97,6 (91,2 – 100)	97,1 (91,4 – 100)	41,5 (32,9 – 62,8)

Efficacy [%] against MYZUPE in winter oil seed rape on 13-14 DAA– the autumn application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of larvae	87,2 (96,0 – 100)	86,0 (63,0 – 100)	59,6 (39,0 – 73,5)

Additionally, 2 trials were presented, where there was no identification of aphids species. Those two reports are considered as supportive for efficacy assessment of the product against two above mentioned aphids species. The means efficacy in the reports amounted 95% and was comparable with reference products.

Efficacy [%] against CEUTQU in winter oil seed rape– the spring application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of larvae on 28 – 56 DAA	69,8 (57,3 – 84,3)	75,7 (58,0 – 88,8)	73,5 (65,0 – 86,9)
Reduction of plant damage (3 trials) on 38-49 DAA	72,5 (72,0 – 73,5)	72,1 (63,0 – 85,3)	75,1 (69,0 – 85,3)
Reduction of stem damage	75,5 (74,0 – 77,0)	72,8 (70,0 – 75,5)	74,3 (67,0 – 79,8)

	(3 trials) on 38-49 DAA			
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Efficacy [%] against CEUTNA in winter oil seed rape – the spring application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of larvae on 45 – 64 DAA	70,7 (57,3 – 82,1)	82,1 (72,4 – 89,4)	69,5 (64,5 – 74,5)
Reduction of plant damage (1 trial) on 49 DAA	73,5	85,3	85,3
Reduction of stem damage (1 trial) on 49 DAA	75,5	75,5	79,8

Additionally, 3 trials were presented, where there was no an identification of species. Those three reports are considered as supportive for efficacy assessment of the product against CEUTQU and CEUTNA. The means efficacy in the reports amounted: 81,2% (control of larvae), 80% (reduction of plant damage), 78,3% (reduction of stem damage) and were comparable with reference products.

Efficacy [%] against MELIAE in winter oil seed rape - the spring application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2	Ref. 3
Control of adults on 1-2 DAA	88,1 (57,1 – 98,4)	78,6 (50,6 – 90,5)	75,9 (44,4 – 90,2)	83,0 (45,8 – 94,8)
Control of adults on 4-6 DAA	81,6 (51,0 – 96,6)	75,2 (47,9 – 95,1)	70,6 (52,6 – 95,1)	72,0 (44,1 – 93,1)
Control of adults on 7-9 DAA (6 trials)	68,8 (33,6 – 100)	59,3 (17,8 – 79,3)	50,3 (14,6 – 78,6)	61,5 (19,6 – 97,8)

Efficacy [%] against CEUTPLin winter oil seed rape - the spring application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2	Ref. 3
Control of larvae on 22 - 28 DAA	82,8 (68,3 – 100)	72,0 (35,0 – 92,4)	65,6 (31,8 – 92)	74,9 (45,5 – 100)
Control of eggs on 28 DAA (2 trials)	91,0 (82,0 – 100)	74,0 (69,0 – 79,0)	83,5 (75,0 – 92,0)	92,5 (85,0 – 100)

Efficacy [%] against DASYBR in winter oil seed rape - the spring application

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2	Ref. 3
Reduction in the percentage of damaged pods on 14 - 28 DAA	84,7 (71,8-96,4)	80,3 (50,0 – 100)	65,7 (52,7 – 82,0)	76,0 (64,3 – 85,1)

Efficacy [%] against MACSAV in winter wheat

Type of ASS	0.16 l/ha	Ref. 1	Ref. 2
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Control of all stages on 1 - 3 DAA	96,9 (94,1 – 100)	95,4 (89,9 – 100)	96,5 (88,6 – 100)
Control of all stages on 7 - 9 DAA	95,3 (75,8 – 100)	93,0 (67,0 – 100)	94,0 (74,3 – 100)

Efficacy [%] against METODR in winter wheat

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of all stages on 1 DAA	100	100	100
Control of all stages on 8 DAA	100	100	100

Efficacy [%] against RHOPPA in winter wheat

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of all stages on 1 DAA	100	100	100
Control of all stages on 8 DAA	100	100	100

Efficacy [%] against THRISP in winter wheat

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of adults on 1 - 3 DAA	93,7 (87,5 – 99,8)	94,5 (90,2 – 99,8)	94,8 (91,3 – 99,5)
Control of adults on 7 - 9 DAA	90,0 (63,6 – 100)	85,9 (52,7 - 100)	91,8 (69,1 – 99,4)

Efficacy [%] against MACSAV in winter triticales

Type of ASS	0,16 l/ha	Ref. 1
Control of all stages on 2 - 3 DAA	83,1 (82,9 – 100)	91,9 (71,6 – 98,2)
Control of all stages on 7 - 9 DAA	93,7 (71,0 – 100)	93,0 (78,5 – 100)

Efficacy [%] against RHOPPA in winter triticales

Type of ASS	0,16 l/ha	Ref. 1	Ref. 2
Control of all stages on 2 DAA	100	100	100
Control of all stages on 9 DAA	100	100	100

Efficacy [%] against THRISP in winter triticales

Type of ASS	0,16 l/ha	Ref. 1
Control of adults on 2 - 3 DAA	93,4 (84,3 – 99,9)	95,0 (89,1 – 99,8)
Control of adults on 7 - 8 DAA	94,7 (81,0 – 100)	96,8 (93,7 - 100)

Efficacy [%] against APHIFA in sugar beet

Type of ASS	0,16 l/ha	Ref. 1
Control of all	78,9	65,6

stages on 1 - 3 DAA	(36,2 – 94,6)	(17,5 – 94,6)
Control of all stages on 7 - 9 DAA	90,4 (66,0 – 99,0)	69,0 (19,6 – 100)
Control of all stages on 12 - 14 DAA (4 trials)	79,7 (45,6 – 100)	71,6 (20,4 – 100)

Additionally, 1 trial was presented, where there was no an identification of species. This report is considered as supportive for efficacy assessment of the product against APHIFA. In the report efficacy amounted: 86,0% (3DAA), 91,0% (7DAA) and was comparable with reference products.

Efficacy [%] against PEGOHY in sugar beet

Type of ASS	0,16 l/ha	Ref. 1
Control of larvae on 7-11 DAA	93,3 (86,7 – 100)	93,8 (84,7 – 100)
Control of larvae on 14 - 16 DAA	90,6 (83,7 – 100)	93,3 (86,0 – 100)
Control of larvae on 17 - 22 DAA	88,6 (84,6 – 94,0)	91,0 (86,5 – 95,2)
Control of eggs on 7 DAA (2 trials)	57,7 (52,7 – 62,8)	33,0 (4,7 – 61,3)
Control of mines on 7 -15 DAA (2 trials)	95,1 (86,0 – 100)	30,9 (2,3 – 64,8)
Reduction in the percentage of leaf damaged on 7 -15 DAA (2 trials)	96,1 (94,0 -100)	30,8 (12,0 – 57,5)

The product controlled very well larvae stadium (E) of insects but eggs cotroll was on lower level about 60 % described as limiting number of pest (L).

To sum up, it might be concluded that the post-emergence application of CHR/I/ADEL 280 SC provides benefit and controls pest on the high level of 70 - 100% at 0,16 l/ha dose rate against:

- ATALCO (E), BRVCBR (E), MYZUPE (E), CEUTQU (M), CEUTNA (M), MELIAE (E), CEUTPL (E larvae and eggs), DASYBR (E) on winter oil seed rape comparable or better with standard products: Los Ovados 200 SE + Asystent, Decis Mega 50 EW, Inazuma 130 WG;
- MACSAV (E), METODOR (E), RHOPPA (E), THRISP (E) on winter wheat comparable or better with standard products: Decis Mega 50 EW and Fastac Active 50 ME;
- MACSAV (E), RHOPPA (E), THRISP (E) on winter tritcale comparable or better with standard product Decis Mega 50 EW;
- AFIFA (E), PEGOHY (E - for larvae stadium and L - limitatig control level of 60% for egss stadium of insect) on sugar beet comparable or better with standard product Decis Mega 50 EW.

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

According to Acetamiprid\_RAR\_05\_Volume 3CA B-3\_2015-11-27.pdf

Acetamiprid is neonicotinoid systemic insecticide. It is used as a foliar application to control a range of herbivorous (sucking and biting) insect pests in both outdoor and protected situations. Acetamiprid affects the insect nervous system by acting as an antagonist of the ion channel by binding to the neurotransmitter acetylcholine recognition site. Symptoms of exposure are convulsion with leg tremor and motion of wings, followed by paralysis and death. These symptoms are similar to what is observed after L-nicotine administration.

Acetamiprid has translaminar activity with contact and stomach action on herbivorous insect pests. It is an agonist of the nicotinic acetylcholine receptor, affecting the synapses in the insect central nervous system. Acetamiprid belongs to the neonicotinoid insecticides and is classified under IRAC group 4A.

Neurotransmission through a nicotinic acetylcholine receptor (nAChR) is initiated from the binding of the neurotransmitter acetylcholine (ACh) to the ACh recognition site on the  $\alpha$ -sub-unit, activation of its ion channel, followed by the influx of sodium ions. Acetamiprid works as an antagonist of the ion channel by binding to the ACh recognition site. It is not affected by the acetylcholinesterase which degrades the natural neurotransmitter ACh.

Acetamiprid does not readily penetrate the cuticle and is therefore more active on ingestion by sucking hemipterian insects. Acetamiprid is not ionised inside the insect but when transferred into the central nervous system, it is ionised and interacts strongly with nAChR.

#### Summary information on the active substance

<b>Active substance</b>	Acetamiprid
<b>IUPAC name</b>	(E)-N1-[(6-Chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamidine
<b>Chemical group</b>	Neonicotinoid
<b>CAS Number</b>	135410-20-7
<b>CIPAC number</b>	649
<b>Molecular formula</b>	C <sub>10</sub> H <sub>11</sub> ClN <sub>4</sub>
<b>Plant translocation</b>	On application acetamiprid resides in the leaf and is also translocated in the plant, therefore giving both translaminar and systemic activity
<b>Biological action</b> <b>Harmful organism, plant, growth regulator, etc</b>	Insecticide. Herbivorous (sucking and biting) insects.
<b>Root-uptake, foliar uptake, systemic etc</b>	Foliar uptake. Studies demonstrate that acetamiprid has translaminar and systemic activity following application to foliage.

#### Information on the occurrence or possible occurrence of the development of resistance and appropriate management strategies

*According to Acetamiprid\_RAR\_05\_Volume 3CA B-3\_2015-11-27.pdf*

Acetamiprid belongs to the chemical family of neonicotinoids which are nicotinic acetylcholine receptor (nAChR) agonists. Acetamiprid belongs to the neonicotinoid insecticides and is classified under IRAC group 4A. Acetamiprid is a possible candidate for resistance development due to its single site mode of action at the nicotinic acetylcholine receptor and its persistence of action. The Insecticide Resistance Action Committee (IRAC) continuously monitors globally for

cases of resistance and according to the database, some cases of resistance have been noted in the literature.

Table 3.3-1: Cases of acetamiprid resistance indicated on the IRAC database  
(<http://www.pesticideresistance.com/search.php>)

Genus Species	Taxonomy (family-order)	Common Name(s)	Cases	Group
<i>Acarus siro</i>	acaridae acari	grain mite	1	AG
<i>Aphis gossypii</i>	aphididae homoptera	melon and cotton aphid	13	AG
<i>Bemisia tabaci</i>	aleyrodidae homoptera	sweetpotato whitefly	44	AG
<i>Brevicoryne brassicae</i>	aphididae hemiptera	cabbage aphid	3	AG
<i>Cimex lectularius</i>	cimicidae hemiptera	bed bug	11	MED
<i>Cydia pomonella</i>	tortricidae lepidoptera	codling moth	16	AG
<i>Deraeocoris brevis</i>	miridae hemiptera		2	AG
<i>Diaphorina citri</i>	psilidae hemiptera	Asian Citrus Psyllid	12	AG
<i>Dysdercus koenigii</i>	pyrrhocoridae hemiptera	red cotton bug	9	AG
<i>Frankliniella occidentalis</i>	thripidae thysanoptera	western flower thrips	1	AG
<i>Leptinotarsa decemlineata</i>	chrysomelidae coleoptera	colorado potato beetle	1	AG
<i>Musca domestica</i>	muscidae diptera	house fly	2	MED
<i>Nilaparvata lugens</i>	delphacidae homoptera	brown planthopper	3	AG
<i>Phenacoccus solenopsis</i>	pseudococcidae homoptera	cotton mealybug	16	AG
<i>Plutella xylostella</i>	plutellidae lepidoptera	diamond-back moth	1	AG
<i>Sitobion avenae</i>	aphididae hemiptera	English Grain Aphid	1	AG
<i>Spodoptera litura</i>	noctuidae lepidoptera	mediterranean climbing cutworm	1	AG
<i>Trialeurodes vaporariorum</i>	aleyrodidae homoptera	greenhouse whitefly	1	AG

Table 3.3-2 List of established target site mutations associated with published cases of a nicotinic acetylcholine receptors resistance.

IRAC MoA Group	Target Site	Affected Organisms	Mutation	Literature References
4	Nicoti-	<i>Myzus pers-</i>	R81T	Bass et al, (2011) BMC Neuroscience, 12:51



	nic acetylcholine receptor	<i>sicae</i>		Beckingham et al, (2013) Pest Biochem Phys, 107:293
				Panini et al, (2014) Pest Manag Sci, 70:931
				Puinean et al, (2013) Pest Manag Sci, 69:195
		<i>Aphis gossypii</i>	R81T	Koo et al, (2014) Crop Protection, 55:91
				Kim et al, (2015) J Asia-Pacific Entom, 18:291
		<i>Nilaparvata lugens</i>	Y151S	Liu et al, (2005) PNAS, 102:8420

### Cross resistance

In terms of cross resistance, IRAC classifies acetamiprid as a Subgroup 4A active and categorised as low risk of metabolic cross-resistance between other Subgroup 4 Nicotinic acetylcholine receptor (nAChR) agonists which include nicotine (Subgroup 4B), sulfoxaflor (Subgroup 4C) and butenolides (Subgroup 4D).

### 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.

Agronomic risk can be enhanced by monoculture in particular regions. Together with agronomic risk, it can be concluded, that the risk for the development of acetamiprid resistant pests biotypes is considered low to medium.

Besides generally recommended measures to avoid resistance, no special restrictions on the label are deemed necessary. However, in order to further prevent any resistance risk, non-chemical measures of pests control should be considered. In chemical pests control, alternation of insecticides is highly recommended. Nevertheless, integrated pests management measures should be considered, since these are most effective in the prevention of insecticide resistance in pests.

For resistance risk management purposes, a number of anti-resistance management recommendations are available.

- Follow good IPM practices such as scouting, utilizing economic thresholds and preservation of beneficials.
- Utilize alternation of insecticides with different mode of action corresponding to the life cycle of pests, to ensure that consecutive generations are not treated with insecticides with the same mode of action.
- Follow the maximum number of applications per season and the full effective dose rates and intervals recommended on labels.
- If it appears that the neonicotinoids are not working, discontinue usage of this class of chemistry and assay the population for susceptibility to this class of chemistry. See also the General Principles of Insecticide Resistance Management from IRAC<sup>1</sup>.

According to Deltamethrin\_RAR\_05\_Volume\_3CA\_B-3\_2018-02-20.pdf

Deltamethrin is a non-systemic insecticide which acts on the insect by contact and ingestion. Deltame-



thrin is not systemic within plants. It has neither systemic translaminar nor vapour activity. Adults and larval stage of insects are controlled. Deltamethrin has no true ovicidal effect although larva may die as soon as they hatch (ovilarvicidal activity). Deltamethrin is an insecticide used to control many important insect pests causing economic damage to a wide range of crops and uses, both field and protected from arable, horticultural, forestry, stored crops, and other situations.

Pyrethroid insecticides such as deltamethrin affect both the peripheral and central nervous systems of pest insects. Upon binding to voltage-gated sodium channels they initially stimulate nerve cells to produce repetitive discharges and eventually cause paralysis. Voltage-gated sodium are essential for the initiation and propagation of action potentials in the nervous system and other excitable cells. Insect sodium channels consists of four homologous membrane domains, each having six transmembrane spanning segments connected by intracellular and extracellular loops. After binding of deltamethrin (and pyrethroids in general) to the open stage of the sodium channels, they remain open as the insecticide impedes channel closing either by inactivation or deactivation, and the sodium channels retain the ability to conduct sodium ions, resulting in abnormal hyperexcitability. This pyrethroid-specific mode of action is phenotypically expressed as a knock-down of the pest insect. Deltamethrin and all other pyrethroids are listed as group 3A insecticides in the IRAC mode of action classification scheme, because they are supposed to be cross-resistant to each other particularly in cases of target-site mutations affecting their binding site.

Deltamethrin is a pyrethroid (Insecticide Resistance Action Committee (IRAC) mode of action group 3a, sodium channel modulators. There are a number of global cases of resistance to pyrethroids, with both metabolic (involving elevated levels of detoxifying enzymes, including esterase and monooxygenase), and target site knock down resistance (kdr or super-kdr, various mutations at the voltage gated sodium channel). A wide range of insect species, across various orders, have developed resistance, although field rates may still have a degree of effectiveness. Resistance in one pyrethroid usually confers cross-resistance across the group. Key European examples include Colorado beetle (*L. decemlineata*), peach potato aphid (*M. persicae*), Cotton aphid (*A. gossypii*), and Cotton bollworm (*H. armigera*), pollen beetle (*Meligethes aeneus*) and more recently the grain aphid (*S. avenae*) in UK cereals. In the case of the latter, a target site mode of action has been identified, and only in heterozygote individuals. Currently field approved rates remain effective.

In fact since the applicant's submission, further cases of resistance have been identified. Most important has been cabbage stem flea beetle (*Psylliodes chrysocephala*). In most of Europe currently only target site mechanism has been identified, and generally field rate remains effective, however in the UK there is a further metabolic mechanism as well as target site, resulting in lack of control. In 2015 resistance was identified in the UK in pea and bean weevil (*Sitona lineatus*). The applicant has argued that the risks of resistance are considered overall judged as moderate, due to the properties of the compound, mode of action, persistence and metabolism. Although it is acknowledged that crop, pest and environmental factors result in complex case by case risks. In the rapporteur assessment, the risk should always be considered as high, given the regular occurrence of new cases.

#### Guidelines

- Long-term rotation act best against rapid selection of resistant populations. This means, the change of active ingredient should take place when the next generation of the pest has to be treated to prevent a selection with the other chemical group within the same generation of the pest.
- Control in alternation should not be carried out with products of just one chemical class.
- The use of non-specific products (e.g. oils) helps to prevent the development of resistance.
- All possible cultivation techniques should be used alongside physical and biological pest control methods.
- Crop protection products should be used in such a way as to reduce the risk to beneficial organisms.

- Preparations should be used at the recommended doses and spray intervals.
- Ensure that uniform spray coverage is achieved.
- If signs of diminished efficacy become evident, do not carry out a follow-up treatment with an active ingredient of the same chemical class.
- Monitor the situation wherever possible so as to detect the first signs of resistance development.

Guidelines published by Insecticide Resistance Action Group should be followed, and appropriate communication strategies employed including, but not exclusively, appropriate National label advice. This will be further developed during any product renewal stage.

Study Comments: 3.3 dRR point 3.3	EN: Strategy is acceptable.
<b>EN: Evaluator conclusion:</b> The active substance acetamiprid belongs to the 4 main group - Nicotinic acetylcholine receptor (nA-ChR) competitive modulators and 4A sub-group – Neonicotinoids in accordance with IRAC classification. The following of found pests strains included as target pest in this dossier are resistant to acetamiprid: <i>Brevicoryne brassicae</i> , <i>Sitobion avenae</i> and <i>Myzus persica</i> to neonicotinoid insecticides. The active substance deltamethrin is a pyrethroid and it belongs the group 3a, sodium channel modulators in accordance with IRAC classification. The following of found pests included as target pest in this dossier are resistant to deltamethrin: <i>Meligethes aeneus</i> , <i>Sitobion avenae</i> and <i>Myzus persica</i> . Both of active substances have different mode of actions and what is more belong to the two separated group of IRAC classification. The application of the product maintaining recommendations of IRAC resistance management strategy should prevent from development resistance to the insecticide. The applicant proposed resistance management strategy in order not to develop resistance to the insecticide which corresponds to the IRAC recommendations. <a href="#">The resistance management strategy is applicable to the dose rate of 0,16 l/ha and it is insufficient for the reduced dose of 0,08 l/ha in oilseed rape, cereals and in sugar beet against APHIFA. For more information, please see section 3.2.3.</a>	

### 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 trials selectivity 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	S + Y + Q	4	2019	GEP	-
			19	2020	GEP	-
			27	2021	GEP	-
winter wheat	Poland	S + Y + Q	4	2020	GEP	-

			6	2021	GEP	-
winter triticale	Poland	S + Y + Q	3	2020	GEP	-
			12	2021	GEP	-
sugar beet	Poland	S + Y + Q	4	2020	GEP	-
			12	2021	GEP	-
<b>TOTAL</b>	-	-	<b>91</b>	-	-	-

\* 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 selectivity trials.**

Crop(s)	Reference standard	Country(ies) where the product is registered <sup>(1)</sup>	Authorization number	Active substance(s)	Formulation		Registered application	Application rate in trials (per treatment)	Remark <sup>(4)</sup>
					Type <sup>(2)</sup>	Concentration of a.s.			
winter oilseed rape	Los Ovados 200 SE	Poland	R-67/2018d; R-28/2017 07.03.2017	acetamiprid	SE - suspo-emulsion	200 g/L	0.25 L/ha	0.25 L/ha	-
	Asystent+		R-67/2018d; R-28/2017 07.03.2018	polyether modified trisiloxane non-ionic humidifier	OL	10-15%	0.05-0.1 L/ha	0.1 L/ha	-
	Decis Mega 50 EW	Poland	R-369/2016d; R-9/2012 12.01.2012	delta-methrin	EW - emulsion, oil in water	50 g/L	0.15 L/ha	0.15 L/ha	-
	Inazuma 130 WG	Poland	R - 211/2019d; R - 83/2016 31.03.2016	acetamiprid lambda-cyhalothrin	WG - water-dispersible granules	100 g/L 30 g/L	0.16-0.30 kg/ha	0.2 kg/ha	-
winter wheat	Decis Mega 50 EW	Poland	R-369/2016d; R-9/2012 12.01.2012	delta-methrin	EW - emulsion, oil in water	50 g/L	0.1-0.125 L/ha	0.125 L/ha	-
	Fastac Active 50 ME	Poland	R-416/2018d; R-52/2014 09.04.2014	alpha-cypermethrin	ME - microemulsion	50 g/L	0.25-0.3 L/ha	0.3 L/ha	-
winter triticale	Decis Mega 50 EW	Poland	R-369/2016d; R-9/2012 12.01.2012	delta-methrin	EW - emulsion, oil in water	50 g/L	0.1-0.125 L/ha	0.125 L/ha	-

	Fastac Active 50 ME	Poland	R- 416/2018d; R-52/2014 09.04.2014	alpha- cyper- methrin	ME - mi- croemul- sion	50 g/L	0.25-0.3 L/ha	0.3 L/ha	-
sugar beet	Decis Mega 50 EW	Poland	R- 369/2016d; R-9/2012 12.01.2012	delta- methrin	EW - emulsion, oil in water	50 g/L	0.1-0.2 L/ha	0.2 L/ha	-

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

### 3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

#### Materials and methods

The applicant submitted 91 reports (in total) showing the results in research into product efficacy carried out in 2019 in winter oilseed rape (autumn application - 4 trials), in 2020 in winter oilseed rape (spring application - 7 trials, autumn application – 12 trials), winter wheat (4 trials), winter triticale (3 trials) and in sugar beet (4 trials) and in 2021 in winter oilseed rape (spring application - 27 trials), winter wheat (6 trials), winter triticale (12 trials) and in sugar beet (12 trials). List of these reports is contained in Appendix 1.

#### Site

Trials were conducted in different regions in Poland where winter oilseed rape, winter wheat, winter triticale and sugar beet 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 studies on insecticide CHR/I/ADEL 280 SC were performed in 2019 by:

- Institute of Plant Protection – National Research Institute, Sośnicowice Branch Office, ul. Gliwicka 29, 44-153 Sośnicowice, Poland
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań; Poland

Efficacy studies on insecticide CHR/I/ADEL 280 SC were performed in 2020 by:

- Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań; Poland
- SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Institute of Plant Protection – National Research Institute, Sośnicowice Branch Office, ul. Gliwicka 29, 44-153 Sośnicowice, Poland

Efficacy studies on insecticide CHR/I/ADEL 280 SC were performed in 2021 by:

- Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań; Poland
- SynTech Research Poland Sp. z o.o., ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Institute of Plant Protection – National Research Institute, Sośnicowice Branch Office, ul. Gliwicka 29, 44-153 Sośnicowice, Poland
- PerfectBAD Justyna Rezmerska-Piętka, ul. Przytargowa 4, 99-412 Kiernozia

#### Experimental details

The efficacy trials were designed, conducted and reported according to 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

#### Assessment methods

##### Statistical Analysis

Statistical calculations were performed using variance analysis and comparing the results using the Duncan test with the significance level of 0.05.

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 2020.1 software.

Software for analysis of the results was ARM Revision 2017.4 from Gylling Data Management. Data were analysed using analysis of variance (ANOVA) on untransformed data and on transformed ones when the Bartlett's test indicated so. If transformation did not improve the distribution, original values were used and therefore significant differences reported should be interpreted with caution. The probability of no significant differences occurring between treatment means was calculated as the F probability value (Treatment Prob(F)). Student-Newman-Keuls (S-N-K) tests were applied when treatment differences were identified on the basis of the ANOVA test. Mean comparison performed only when AOV Treatment P(F) is significant at level selected. Results obtained were indicated by a letter-treatment means with no letters in common are significantly different in accordance with a S-N-K conducted at a 95% confidence level. Where data have been transformed, letters are included in the transformed data.

##### Assessment of efficacy

Trial was performed according to the Principles of Good Experimental Practice EPPO PP1/152(4):2012 "Design and analysis of efficacy evaluation trials" and PP1/181(4):2012 "Conduct and reporting of efficacy evaluation trials, including good experimental practice").

The assessment of efficacy in the treated plots was made in relation to the untreated plot on an overall plot basis (scale 0-100 %, 0 % =no efficacy). The assessment date was determined by the speed of action and period of efficacy of the test items.

The number of *Athalia rosae* larvae was counted on 25 previously marked plants, randomly selected diagonally across each plot. The damage on the leaves was recorded as a percentage of the affected leaf area.

The number of aphids was counted on 25 pre-marked plants (5 plants in 5 places), randomly selected on each plot.

The number of *Ceutorhynchus* larvae was counted on 20 randomly selected plants in each plot, by cutting the stems and counting the number of larvae and holes going outwards in each of the analyzed plants. Based on the data collected during the assessment, the effectiveness of *Ceutorhynchus* control was determined by comparing the average number of larvae in stems taken from plots treated with insecticides with respect to plots where no insecticides were applied during the trial. An additional parameter assessing the effectiveness of the tested solutions was a comparison of the incidence of stems in which the effects of feeding the pest in question were recorded.

The number of *Meligethes aeneus* beetles was counted 50 main shoots selected at random from the centre of each plot.

The number of *Ceutorhynchus assimilis* beetles was counted on 20 randomly selected plants on each plot and comparing the number of pests from the plots treated with insecticides to the results recorded on untreated plots where no insecticides were used during the whole trial.

The number of *Ceutorhynchus assimilis* larvae was counted on 10 plants were randomly selected on each plot, on which the occurrence of larvae and holes in 10 pods of each plant were assessed.

Immediately before the application, 25 plants were marked on each plot, on which the pods affected by feeding on *Dasineura brassicae* larvae were counted and removed.

A similar procedure was also repeated on the marked plants during the next assessments. On the marked plants the infected pods was re-counted and removed.

Immediately before the application, 25 plants were marked on each plot, on which the pods affected by feeding on *Dasineura brassicae* larvae were counted and removed.

A similar procedure was also repeated on the marked plants during the next assessments. On the marked plants the infected pods was re-counted and removed.

Before application, pests were counted in 5 places on 5 randomly selected plants. The effectiveness of the test and reference product against *Thrips* sp. and *Sitobion avenae* was assessed by counting individuals on previously marked plants, comparing the results on plots treated with insecticides with the results obtained from the same before application. The Henderson-Tilton test was used to evaluate the effectiveness. The results are presented as the percentage of failures. The results were presented on a scale of 0-100, where: 0 - no effectiveness, 100 - complete destruction of the pest.

The number of aphids was counted on 25 pre-marked plants (5 plants in 5 places), randomly selected on each plot. The effectiveness of particular insecticidal solutions was determined by comparing the number of aphids on plots treated with insecticides to the number of aphids recorded on control objects, where no insecticides were applied during the trial.

The number of eggs of *Pegomya hyoscyami* and mines was counted on 25 randomly selected plant on each plot (5 plants in 5 places). The damage on the leaves was recorded as a percentage of the affected leaf area.

#### 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).

The phytotoxicity of the test and reference product was assessed by visually assessing the intensity of chlorosis, necrosis, leaf curl, reduction of plant turgor, etc. found on the general surfaces of the treated plots and by comparing each treated plot with the untreated plot. The assessment was made directly on the plantation. The results were presented on a scale of 0-100, where: 0 - no phytotoxicity, 100 - complete destruction of plants.

Each treated plot is compared with an untreated plot and % phytotoxicity is estimated. Frequency and severity of symptoms should be estimated (scored referring to a scale that should be described). Use a scale 0-100% with 0% is no symptoms and 100% is the organ totally affected by the symptoms

#### Harvest

A plot combine for intermixing-free grain-harvest in field trials was used for harvesting the centre of the plot. The total yield is given in unit/ha adjusted to a fixed moisture content.

Sample for each plots was analyzed on the grain analyzer: Aquamatic 5200 Perten; Inframatic 8800.

Beets were harvested by hand. 60 beet roots were harvested from the two central rows. The samples for each plots were analyzed for %sugar content and K, N and Na content.

#### Applications methods and rates

The applications were carried out by:

- plot sprayer type WACH-4, T-Boom BACCAI, plot sprayer BICSPR in winter oilseed rape,
- T-BOOM – BACCAI in winter wheat,



- T-BOOM – BACCAI, plot sprayer – SPRBIC in winter triticale and sugar beet.

Tested insecticide was applied at the growth stage in winter oilseed rape, winter wheat, winter triticale, sugar beet:

winter oilseed rape: BBCH 10-21 and BBCH 30-70,

winter wheat: BBCH 65-76,

winter triticale: BBCH 49-77,

sugar beet: BBCH 12-19.

The product CHR/I/ADEL 280 SC has been used:

in winter oilseed rape at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in winter wheat at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in winter triticale at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha;

in sugar beet at the following rates of 0.06, 0.08, 0.1, 0.12, 0.14, 0.16 L/ha and 0.08 + Asystent + 0.1 L/ha.

Los Ovados 200 SE + Asystent+ and Decis Mega 50 EW were used as a reference product in winter oilseed rape in autumn application.

Los Ovados 200 SE + Asystent+, Decis Mega 50 EW and Inazuma 130 WG were used as a reference product in winter oilseed rape in spring application.

Decis Mega 50 EW and Fastac Active 50 ME were used as a reference product in winter wheat.

Decis Mega 50 EW was used as a reference product in winter triticale and sugar beet.

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

### Experiment pattern:

#### Winter oilseed rape in autumn application

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.80	A	BBCH 10-21
3	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 10-21
4	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 10-21
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.00	A	BBCH 10-21
6	CHR/I/ADEL 280 SC	0.12	33.60	A	BBCH 10-21
7	CHR/I/ADEL 280 SC	0.14	39.20	A	BBCH 10-21
8	CHR/I/ADEL 280 SC	0.16	45.00	A	BBCH 10-21
9	Los Ovados 200 SE	0.25	50.00	A	BBCH 10-21
	Asystent+	0.10			
10	Decis Mega 50 EW	0.15	7.50	A	BBCH 10-21

#### Winter oilseed rape in spring application

No.	Name	Rate (L, kg/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
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1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.8	A	BBCH 30-70
3	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 30-70
4	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 30-70
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.0	A	BBCH 30-70
6	CHR/I/ADEL 280 SC	0.12	33.6	A	BBCH 30-70
7	CHR/I/ADEL 280 SC	0.14	39.2	A	BBCH 30-70
8	CHR/I/ADEL 280 SC	0.16	45.0	A	BBCH 30-70
9	Los Ovados 200 SE	0.25	50.0	A	BBCH 30-70
	Asystent+	0.10			
10	Decis Mega 50 EW	0.1-0.15	7.5	A	BBCH 30-70
11	Inazuma 130 WG	0.20	26.0	A	BBCH 30-70

#### Winter wheat

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.80	A	BBCH 65-76
3	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 65-76
4	CHR/I/ADEL 280 SC	0.08	22.40	A	BBCH 65-76
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.00	A	BBCH 65-76
6	CHR/I/ADEL 280 SC	0.12	33.60	A	BBCH 65-76
7	CHR/I/ADEL 280 SC	0.14	39.20	A	BBCH 65-76
8	CHR/I/ADEL 280 SC	0.16	44.80	A	BBCH 65-76
9	Decis Mega 50 EW	0.13	6.25	A	BBCH 65-76
10	Fastac Active 50 ME	0.30	15.00	A	BBCH 65-76

#### Winter triticale

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.8	A	BBCH 49-77
3	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 49-77
4	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 49-77
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.0	A	BBCH 49-77
6	CHR/I/ADEL 280 SC	0.12	33.6	A	BBCH 49-77
7	CHR/I/ADEL 280 SC	0.14	39.2	A	BBCH 49-77
8	CHR/I/ADEL 280 SC	0.16	44.8	A	BBCH 49-77
9	Decis Mega 50 EW	0.13	6.25	A	BBCH 49-77



10	Fastac Active 50 ME	0.30	15.00	A	BBCH 49-77
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#### Sugar beet

No.	Name	Rate (L/ha)	other rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check	-	-	-	-
2	CHR/I/ADEL 280 SC	0.06	16.8	A	BBCH 12-19
3	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 12-19
4	CHR/I/ADEL 280 SC	0.08	22.4	A	BBCH 12-19
	Asystent+	0.10			
5	CHR/I/ADEL 280 SC	0.10	28.0	A	BBCH 12-19
6	CHR/I/ADEL 280 SC	0.12	33.6	A	BBCH 12-19
7	CHR/I/ADEL 280 SC	0.14	39.2	A	BBCH 12-19
8	CHR/I/ADEL 280 SC	0.16	44.8	A	BBCH 12-19
9	Decis Mega 50 EW	0.20	10.0	A	BBCH 12-19

## Details of experiments

### Winter oilseed rape in autumn application in 2019

Report code	4I/2020	A.T/2019/085/RZO	A.T/2019/086/RZO	AI/19/RO/27/ZI/ADEL
Location	Sośnicowice, Poland	Wronczyn, Poland	Wronczyn, Poland	Złotniki, Poland
Plant/cultivar	winter oilseed rape/Visby	winter oilseed rape/ Dominator	winter oilseed rape/ Dominator	winter oilseed rape/Harry
Seeding date	24.08.2019	23.08.2019	23.08.2019	26.08.2019
Seeding rate	3.1 kg/ha	2.7 kg/ha	2.7 kg/ha	3.24 kg/ha
Forecrop	winter wheat	winter triticale	winter triticale	spring triticale
Type of sprayer	plot sprayer type WACH-4	T-Boom BACCAI	T-Boom BACCAI	plot sprayer BICSPR
Date of treatment	04.10.2019	26.09.2019	07.11.2019	15.10.2019
Plant development phase	BBCH 14-15	BBCH 14-16	BBCH 17-21	BBCH 15-17
Soil type	sandy loam	loamy sand	loamy sand	loamy sand
Soil pH	6.2	5.9	5.9	6.4
Water	300 L/ha	200 L/ha	300 L/ha	200 L/ha

### Winter oilseed rape in autumn application in 2020

Report code I	A.T/2020/11 6/RZO	A.T/2020/11 7/RZO	A.T/2020/11 8/RZO	A.T/2020/11 9/RZO	A.T/2020/12 0/RZO	A.T/2020/12 1/RZO	AI/20/RO/36 /Pr/1	AI/20/RO/36 /ZI/2	AI/20/RO/36 /Br/3	4I/2021	5I/2021	6I/2021
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<b>Location</b>	Batorowo/ Poland	Duża Cer- kwica/ Po- land	Stare Młodo- chowo/ Po- land	Lusówko/ Poland	Suchary/ Poland	Stare Młodo- dowo/ Poland	Przybroda/ Poland	Złotniki/ Poland	Brody/ Po- land	Sosnicowice/ Poland	Lany Wielkie / Poland	Lany Wielkie / Poland
<b>Plant /cultivar</b>	winter oilseed rape/ ES Cesario	winter oilse- ed rape/ Kuga	winter oilse- ed rape/ Hamilton	winter oilse- ed rape/ Addition	winter oilse- ed rape/ Dominator	winter oilse- ed rape/ Hamilton	winter oilse- ed rape/ Harry	winter oilseed rape/ Graf F1	winter oilse- ed rape/ Berny	winter oilse- ed rape/ Alibaba	winter oilse- ed rape/ Visby	winter oilse- ed rape/ Visby
<b>Seeding date</b>	25.08.2020	28.08.2020	10.09.2020	29.08.2020	24.08.2020	20.08.2020	24.08.2020	25.08.2020	21.08.2020	25.08.2020	25.08.2020	25.08.2020
<b>Seeding rate</b>	40 S/m2	2.5 kg/ha	1.8 kg/ha	42 S/ha	2.8 kg/ha	1.8 kg/ha	2.8 kg/ha	3.3 kg/ha	3.2 kg/ha	4.1 kg/ha	2.9 kg/ha	2.9 kg/ha
<b>Forecrop</b>	winter wheat	winter wheat	winter rye	winter wheat	winter wheat	winter rye	winter braley	winter wheat	narrow- leaved lupin	winter wheat	winter wheat	winter wheat
<b>Type of sprayer</b>	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	WACH-4 BICSPR	WACH-4 BICSPR	WACH-4 BICSPR
<b>Date of treatment A</b>	09.10.2020	22.10.2020	22.10.2020	23.10.2020	28.10.2020	22.10.2020	17.09.2020	21.09.2020	18.09.2020	24.09.2020	24.09.2020	09.10.2020
<b>Plant de- velopment phase A</b>	BBCH 14-17	BBCH 14-18	BBCH 12-14	BBCH 14-17	BBCH 14-17	BBCH 10-12	BBCH 12-16	BBCH 12-13	BBCH 14-15	BBCH 14-15	BBCH 14-15	BBCH 17-18
<b>Soil type</b>	loamy sand	loamy sand	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	sandy clay loam	sandy loam	sandy loam
<b>pH</b>	7.6	7.6	4.5	5.7	6.1	4.5	6.0	6.0	6.0	6.1	6.6	6.6
<b>Water (L/ha) (applica- tion A and B)</b>	200 L/ha	200 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha	200 L/ha	200 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha

Winter oilseed rape in spring application in 2020

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### Winter oilseed rape in spring application in 2021a

Report code	A.T/2021/01/RZO	A.T/2021/02/RZO	A.T/2021/03/RZO	A.T/2021/04/RZO	A.T/2021/05/RZO	A.T/2021/06/RZO	A.T/2021/07/RZO	A.T/2021/08/RZO	A.T/2021/09/RZO	A.T/2021/10/RZO	A.T/2021/64/RZO	A.T/2021/65/RZO	A.T/2021/66/RZO
Location	Modrze/ Poland	Czesławice/ Poland	Wilkowo/ Poland	Szapsk/ Poland	Szyszk-Folwark/ Poland	Modrze/ Poland	Jęczniki Wielkie/ Poland	Szapsk/ Poland	Jęczniki Wielkie/ Poland	Szyszk-Folwark/ Poland	Jęczniki Wielkie/ Poland	Batorowo/ Poland	Kakulin/ Poland
Plant/cultivar	winter oilseed rape/ Dominator	winter oilseed rape/ Kuga	winter oilseed rape/ Umberto	winter oilseed rape/ KWS Riccardo	winter oilseed rape/ Polana	winter oilseed rape/ Dominator	winter oilseed rape/ LG Aviron	winter oilseed rape/ KWS Riccardo	winter oilseed rape/ LG Aviron	winter oilseed rape/ Polana	winter oilseed rape/ Umberto	winter oilseed rape/ Dominator	winter oilseed rape/ LG Aviron
Seeding date	25.08.2020	23.08.2020	26.08.2020	20.08.2020	18.08.2020	25.08.2020	26.08.2020	20.08.2020	26.08.2020	18.08.2020	27.08.2020	28.08.2020	25.08.2020
Seeding rate	40 S/ha	45 S/ha	2.8 kg/ha	2.1 kg/ha	3.0 kg/ha	40 S/ha	2.8 kg/ha	2.1 kg/ha	2.8 kg/ha	3.0 kg/ha	2.8 kg/ha	42 P/m2	2.9 kg/ha
Fore-crop	spring barley	winter wheat	winter triticale	winter rye	winter barley	spring barley	winter barley	winter rye	winter barley	winter barley	winter barley	winter barley	winter wheat
Type of sprayer	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated
Date of treatment	26.03.2021	30.03.2021	30.03.2021	30.03.2021	19.04.2021	17.04.2021	31.03.2021	12.04.2021	10.05.2021	30.04.2021	19.05.2021	12.05.2021	24.05.2021
Plant development phase	BBCH 30-35	BBCH 32-35	BBCH 33-37	BBCH 30-35	BBCH 35-39	BBCH 39-50	BBCH 30-35	BBCH 35-39	BBCH 51-55	BBCH 55-59	BBCH 63-67	BBCH 65-67	BBCH 65-69
Soil type	loamy sand	sandy loam	sandy loam	sand	loamy sand	loamy sand	sandy loam	sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand
Soil pH	6.5	6.2	4.8	6.3	6.5	6.5	4.8	6.3	4.8	6.5	5.8	6.3	5.1
Water	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha

### Winter oilseed rape in spring application in 2021b

Report code	AI/21/RO/4/Pr/01	AI/21/RO/4/ZI/02	AI/21/RO/4/Br/03	AI/21/RO/14/Ma/AD EL	CH-WR-I-ADEL-2021-01	CH-WR-I-ADEL-2021-02	CH-WR-I-ADEL-2021-03	CH-WR-I-ADEL-2021-04	SRPL21-401-336FE	SRPL21-402-336FE	9I/2021	10I/2021	11I/2021	12I/2021
Location	Przybroda/ Poland	Złotniki/ Poland	Brody/ Poland	Machary/ Poland	Waliszew/ Poland	Gabin/ Poland	Gabin/ Poland	Gabin/ Poland	Tomarynki/ Poland	Osówka/ Poland	Lany Wielkie/ Poland	Lany Wielkie/ Poland	Sosnicowice/ Poland	Lany Wielkie/ Poland
Plant/cultivar	winter oilseed rape/ Harry	winter oilseed rape/ Graf F1	winter oilseed rape/ Berny	winter oilseed rape/ Harry	winter oilseed rape/ Kuga F1	winter oilseed rape/ Kuga F1	winter oilseed rape/ Kuga F1	winter oilseed rape/ Kuga F1	winter oilseed rape/ DK Exquisite	winter oilseed rape/ Bazył	winter oilseed rape/ Architect	winter oilseed rape/ Alibaba	winter oilseed rape/ Birdy	winter oilseed rape/ Architect
Seeding date	24.08.2020	25.08.2020	21.08.2020	24.08.2020	19.08.2020	21.08.2020	19.08.2020	21.08.2020	22.08.2020	12.09.2020	27.08.2020	25.08.2021	27.08.2020	27.08.2020
Seeding rate	2.8 kg/ha	3.3 kg/ha	3.2 kg/ha	2.8 kg/ha	2.4 kg/ha	2.45 kg/ha	2.4 kg/ha	2.45 kg/ha	4.5 kg/ha	4.0 kg/ha	2.8	4.1	3.0 kg/ha	2.8 kg/ha
Forecrop	winter barley	winter wheat	narrow-leaved lupin	winter barley	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter wheat	winter triticale	winter wheat
Type of sprayer	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	WHEEL-BARROW APPLICATOR, COMPRESSED AIR-OPERATED	WHEEL-BARROW APPLICATOR, COMPRESSED AIR-OPERATED	WHEEL-BARROW APPLICATOR, COMPRESSED AIR-OPERATED	WHEEL-BARROW APPLICATOR, COMPRESSED AIR-OPERATED	SR_PL_13 6/1 BACCAI	T-BOOM BACCAI	WACH-2 BICSPR	WACH-2 BICSPR	WACH-2 BICSPR	WACH-4 BICSPR
Date of treatment	13.04.2021	31.03.2021	01.04.2021	20.05.2021	24.04.2021	24.04.2021	13.05.2021	12.05.2021	11.05.2021	12.05.2021	20.04.2021	20.04.2021	14.05.2021	14.05.2021
Plant development phase	BBCH 35	BBCH 30	BBCH 39	BBCH 61-69	BBCH 55	BBCH 55	BBCH 65	BBCH 65-67	BBCH 51-53	BBCH 57-59	BBCH 39-50	BBCH 39-50	BBCH 65-67	BBCH 65
Soil type	sandy loam	loamy sand	loamy sand	loamy clay	sandy loam	sandy clay	sandy loam	sandy clay	sandy loam	sandy clay	sandy loam	sandy loam	sandy clay loam	sandy loam
Soil pH	6.0	6.0	6.0	6.0	6.1	6.5	6.1	6.5	5.1	6.2	6.1	6.6	6.2	6.1
Water	300 L/ha	250 L/ha	230 L/ha	200 L/ha	200 L/ha	200 L/ha	200 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha

Winter wheat in 2020 and 2021

Report code	SRPL20-413-336FE	SRPL20-414-336FE	SRPL20-416-336FE	SRPL20-417-336FE	A.T/2021/088/PO	A.T/2021/089/PO	A.T/2021/090/PO	A.T/2021/091/PO	SRPL21-450-336FE	SRPL21-451-336FE
Location	Teresin, Poland	Samborowao, Poland	Tonowo, Poland	Murczyn, Poland	Batorowo/ Poland	Nowa Wieś Ujska/ Poland	Nowy Dwór/ Poland	Kielbowo/ Poland	Jankowice Wielkie/ Poland	Gietrzwałd/ Poland
Plant/cultivar	winter wheat/ Kilimanjaro	winter wheat/ Ostroga	winter wheat/ Arkadia	winter wheat/ Hondia	winter wheat/ RGT Kili-manjaro	winter wheat/ Euclide	winter wheat/ RGT Bilanz	winter wheat/ Tonnage	winter wheat/ Asory	winter wheat/ Findus
Seeding date	30.09.2019	18.09.2019	21.10.2019	21.09.2019	25.09.2020	09.10.2020	15.09.2020	15.10.2020	07.10.2020	26.09.2020
Seeding rate	200 kg/ha	180 kg/ha	200 kg/ha	170 kg/ha	130 kg/ha	185 kg/ha	185 kg/ha	150 kg/ha	200 kg/ha	180 kg/ha
Forecrop	winter oilseed rape	winter wheat	maize	winter oilseed rape	winter rape	winter wheat	spring barley	sugar beet	maize	winter oilseed rape
Type of sprayer	T-Boom BACCAI	T-Boom BACCAI	T-Boom BACCAI	T-Boom BACCAI	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated
Date of treatment	30.06.2020	04.07.2020	03.07.2020	30.06.2020	23.06.2021	24.06.2021	28.06.2021	26.06.2021	30.06.2021	30.06.2021
Plant development phase	BBCH 71-75	BBCH 75-76	BBCH 73	BBCH 75	BBCH 73-75	BBCH 65-71	BBCH 69-73	BBCH 67-69	BBCH 73-75	BBCH 68-71
Soil type	sandy clay loam	sandy loam	sandy loam	clayey sand	sandy loam	sandy loam	sandy loam	loamy sand	sandy loam	sandy loam
Soil pH	6.5	5.4	6.1	6.8	7.5	4.8	5.6	6.5	6.4	4.9
Water	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha

Winter triticale in 2020 and 2021

Report code	SRPL20-415-336FE	SRPL20-418-336FE	AI/20/Ps zO/24/G r/02	A.T/2021/092/PŻ O	A.T/2021/093/PŻ O	A.T/2021/094/PŻ O	A.T/2021/095/PŻ O	AI/21/Ps zO/20/Pr /1	AI/21/Ps zO/20/R a/2	SRPL21-452-336FE	SRPL21-453-336FE	SRPL21-454-336FE	SRPL21-455-336FE	SRPL21-456-336FE	SRPL21-457-336FE
Location	Jankowice Wielkie, Poland	Owczary, Poland	Gorzyń, Poland	Modrze/ Poland	Nowa Wieś Ujska/ Poland	Suchary/ Poland	Studzieniec/ Poland	Przybroda/ Poland	Rataje/ Poland	Tynwałd/ Poland	Osowka/ Poland	Tonowo/ Poland	Sulino-wo/ Poland	Murczyn/ Poland	Tomaszkowo/ Poland
Plant/cultivar	winter triticales/ Fredro	winter triticales/ Trapero	winter triticales/ Tadeus	winter triticales/ Meloman	winter triticales/ Lombardo	winter triticales/ Orinoko	winter triticales/ Meloman	winter triticales/ Grenado	winter triticales/ Porto	winter triticales/ Meloman	winter triticales/ Rotondo	winter triticales/ Balcanto	winter triticales/ Borowik	winter triticales/ Rotondo	winter triticales/ Rotondo
Seeding date	09.10.2019	24.09.2019	04.10.2019	24.09.2020	24.09.2020	03.10.2020	05.10.2020	22.09.2020	01.10.2020	05.10.2020	29.10.2020	02.10.2020	21.09.2021	19.09.2020	28.09.2020
Seeding rate	200 kg/ha	200 kg/ha	214 kg/ha	135 kg/ha	160 kg/ha	150 kg/ha	230 kg/ha	150 kg/ha	200 kg/ha	180 kg/ha	280 kg/ha	200 kg/ha	200 kg/ha	170 kg/ha	1780 kg/ha
Fore-crop	maize	maize	forage legume plants	winter wheat	winter wheat	winter barley	winter wheat	winter wheat	spring barley	spring barley	winter wheat	maize	winter wheat	winter oilseed rape	spring barley
Type of sprayer	T-Boom BACCAI	T-Boom BACCAI	plot sprayer SPRBIC	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	backpack applicator, compressed air-operated	PLOT SPRAY-ER BICSPR	PLOT SPRAY-ER BICSPR	backpack applicator, compressed air-operated	SPRBIC	T-BOOM BACCAI	T-BOOM BACCAI	T-BOOM BACCAI	SR_PL_1 36/1 BACCAI
Date of treatment	06.07.2020	06.07.2020	26.06.2020	18.06.2021	23.06.2021	24.06.2021	26.06.2021	03.06.2021	21.06.2021	21.06.2021	09.06.2021	30.06.2021	25.06.2021	15.06.2021	09.06.2021
Plant development phase	BBCH 73-77	BBCH 71-75	BBCH 73-75	BBCH 73-77	BBCH 69-73	BBCH 69-73	BBCH 65-69	BBCH 49	BBCH 63	BBCH 65-69	BBCH 51-55	BBCH 71-73	BBCH 73-75	BBCH 71-73	BBCH 61-65
Soil type	sandy clay loam	sandy loam	sandy loam	loamy sand	sandy loam	loamy sand	sand	loamy sand	loamy sand	sandy loam	sandy loam	sandy loam	loam	sandy clay loam	sandy loam
Soil pH	6.9	6.3	6.2	6.6	4.6	6.3	6.1	6.0	6.9	5.5	5.5	6	6.4	6.5	5.2
Water	300 L/ha	300 L/ha	200 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	200 L/ha	250 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha



Sugar beet in 2020 and 2021

Report code	SRPL20-419-336FE	SRPL20-420-336FE	SRPL20-421-336FE	AI/20/Bc/24/Lu/01	A.T/2021/081/B C	A.T/2021/082/B C	A.T/2021/083/B C	A.T/2021/084/B C	A.T/2021/085/B C	A.T/2021/086/B C	A.T/2021/087/B C	AI/21/B C/18/Br /1	AI/21/B C/18/La /2	AI/21/B C/18/M r/3	AI/21/B C/18/Ko /4	AI/21/B C/18/ZI
Location	Turze, Poland	Borzęcin, Poland	Pogorzela, Poland	Lubiń, Poland	Gaj Wielki/ Poland	Żabiczyn/ Poland	Jeziorki Kosztowskie/ Poland	Suchary/ Poland	Szapsk/ Poland	Trzeciewnica/ Poland	Studzieniec/ Poland	Brody/ Poland	Laskowo/ Poland	Mrowino/ Poland	Kokoszczyń/ Poland	Złotnik/ Poland
Plant/cultivar	sugar beet/ Sobieski	sugar beet/ Jagienka	sugar beet/ Kujavia	sugar beet/ Krajana	sugar beet/ Toleranza KWS	sugar beet/ Marynia	sugar beet/ Kujavia	sugar beet/ Kujavia	sugar beet/ Smart Latoria KWS	sugar beet/ Jantar	sugar beet/ FD Drift	sugar beet/ Lancaster	sugar beet/ Gellert	sugar beet/ Panorama	sugar beet/ Toleranza	sugar beet/ Jagiellon
Seeding date	25.04.2020	16.04.2020	28.03.2020	16.04.2020	29.03.2021	07.04.2021	06.04.2021	06.04.2021	05.04.2021	09.04.2021	01.04.2021	09.04.2021	08.04.2021	07.04.2021	01.04.2021	08.04.2021
Seeding rate	90,000 S/ha	125,000 S/ha	125,000 S/ha	100,000 S/ha	120,000 S/ha	100,000 S/ha	85 TS/ha	100,000 S/ha	110,000 S/ha	100,000 S/ha	112,000 S/ha	100,000 S/ha	110,000 S/ha	110,000 S/ha	120,000 S/ha	100,000 S/ha
Fore-crop	winter wheat	winter wheat	winter wheat	white sweet-clover	winter rye	winter wheat	winter wheat	winter rape	maize	winter triticale	maize	winter wheat	winter wheat	winter triticale	winter triticale	winter barley
Type of sprayer	T-Boom BAC-CAI	T-Boom BAC-CAI	T-Boom BAC-CAI	plot sprayer SPRBIC	OP-02 BAC-CAI	OP-02 BAC-CAI	OP-02 BAC-CAI	OP-3 BAC-CAI	OP-05 BAC-CAI	OP-3 BAC-CAI	OP-05 BAC-CAI	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR	PLOT SPRAYER BICSPR
Date of treatment	22.05.2020	29.05.2020	02.06.2020	18.05.2020	30.05.2021	14.06.2021	26.05.2021	10.06.2021	15.06.2021	04.06.2021	31.05.2021	20.05.2021	24.05.2021	31.05.2021	31.05.2021	25.05.2021
Plant development phase	BBCH 12-13	BBCH 13-14	BBCH 13-15	BBCH 14-15	BBCH 12-14	BBCH 14-19	BBCH 12-14	BBCH 17-19	BBCH 18-19	BBCH 12-16	BBCH 12-16	BBCH 13	BBCH 12-13	BBCH 13-14	BBCH 13-14	BBCH 13
Soil type	sandy loam	sandy loam	clay loam	course sandy loam	sandy loam	loamy sand	sandy loam	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
Soil pH	6.1	6.8	6.6	6.8	6.4	6.5	4.9	7.5	6.6	5.3	6.2	5.9	5.9	6.1	6	5.4
Water	300 L/ha	300 L/ha	300 L/ha	250 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	300 L/ha	230 L/ha	200 L/ha	200 L/ha	200 L/ha	200 L/ha

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**

Post emergence application 91 trials were carried out on winter oilseed rape, winter wheat, winter triticale and sugar beet in Poland in 2019, 2020 and 2021 on a wide range of commercially grown varieties. There were not observed any phytotoxicity symptoms on tested product and standard in trials.

**Winter oilseed rape in autumn application**

Number of trials with		Selectivity/Efficacy trials (16)					
		CHR/I/ADEL 280 SC		Standard I Los Ovados 200 SE + Asystent+		Standard II Decis Mega 50 EW	
		N	2N (or other)	N	2N (or other)	N	2N (or other)
Maximum of phytotoxicity recorded during the trials	0% to 5%	n/a	n/a	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a	n/a	n/a
Level of symptoms at the last assessments	0% to 5%	n/a	n/a	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a	n/a	n/a

### Winter oilseed rape in spring application

Number of trials with		Selectivity/Efficacy trials (34)							
		CHR/I/ADEL 280 SC		Standard I Los Ovados 200 SE + Asystent+		Standard II Decis Mega 50 EW		Standard III Inazuma 130 WG	
		N	2N (or other)	N	2N (or other)	N	2N (or other)	N	2N (or other)
Maximum of phytotoxicity recorded during the trials	0% to 5%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Level of symptoms at the last assessments	0% to 5%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

### Winter wheat

Number of trials with		Selectivity/Efficacy trials (10)					
		CHR/I/ADEL 280 SC		Standard I Decis Mega 50 EW		Standard II Fastac Active 50 ME	
		N	2N (or other)	N	2N (or other)	N	2N (or other)
Maximum of phytotoxicity recorded during the trials	0% to 5%	n/a	n/a	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a	n/a	n/a
Level of symptoms at the last assessments	0% to 5%	n/a	n/a	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a	n/a	n/a

### Winter triticale in 2020

Number of trials with		Selectivity/Efficacy trials (3)	
		CHR/I/ADEL 280 SC	
		N	2N (or other)
Maximum of phytotoxicity recorded during the trials	0% to 5%	n/a	n/a
	>5% to 10%	n/a	n/a
	>10% to 15%	n/a	n/a
	>15 %	n/a	n/a
Level of symptoms at the last assessments	0% to 5%	n/a	n/a
	>5% to 10%	n/a	n/a
	>10% to 15%	n/a	n/a
	>15 %	n/a	n/a

#### Winter triticale in 2021

Number of trials with		Selectivity/Efficacy trials (12)			
		CHR/I/ADEL 280 SC		Standard I Decis Mega 50 EW	
		N	2N (or other)	N	2N (or other)
Maximum of phytotoxicity recorded during the trials	0% to 5%	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a
Level of symptoms at the last assessments	0% to 5%	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a

#### Sugar beet

Number of trials with		Selectivity/Efficacy trials (16)			
		CHR/I/ADEL 280 SC		Standard I Decis Mega 50 EW	
		N	2N (or other)	N	2N (or other)
Maximum of phytotoxicity recorded dur-	0% to 5%	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a

ing the trials	>10% to 15%	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a
Level of symptoms at the last assessments	0% to 5%	n/a	n/a	n/a	n/a
	>5% to 10%	n/a	n/a	n/a	n/a
	>10% to 15%	n/a	n/a	n/a	n/a
	>15 %	n/a	n/a	n/a	n/a

Comments of zRMS:	The applicant tested phytotoxicity in all effectiveness trials. The maximum tested dose rate was 0,16 l/ha. No phytotoxicity symptoms were observed in the efficacy tests.
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### 3.4.2 Effect on the yield of treated plants or plant product (KCP 6.4.2)

Influence of CHR/I/ADEL 280 SC on the yield of grains was evaluated in efficacy/selectivity research. The yield was evaluated on the basis of harvested grains quantity from one hectare (t/ha) (winter oilseed rape, winter wheat and winter triticale) and roots quantity from one hectare (t/ha) (sugar beet). The influence of the tested product on quantity of grain and roots was evaluated in 91 field experiments in winter oilseed rape 50 trails, in winter wheat 10 trials, in winter triticale 15 trials and in sugar beet 16 trials in Poland in 2019, 2020 and 2021. Details of the data shows tables below.

## Winter oilseed rape in autumn application

table 3.4.2.1-1 The influence of the CHR/I/ADEL 280 SC on yield quantity [t/ha]

Crop code			winter oilseed rape/yield (t/ha)																		
Report code			A.T/2019/08 5/RZ O	A.T/2019 /086/RZ O	4I/2020	AI/19/R O/27/ZI/ ADEL	A.T/2020 /116/RZ O	A.T/2020 /117/RZ O	A.T/2020 /118/RZ O	A.T/2020 /119/RZ O	A.T/2020 /120/RZ O	A.T/2020 /121/RZ O	AI/20/R O/36/Pr/ 1	AI/20/R O/36/ZI/ 2	AI/20/R O/36/Br/ 3	4I/2021	5I/2021	6I/2021			
Application date			26.09.2019	07.11.2019	04.10.2019	15.10.2019	09.10.2020	22.10.2020	22.10.2020	23.10.2020	28.10.2020	22.10.2020	17.09.2020	21.09.2020	18.09.2020	24.09.2020	24.09.2020	09.10.2020			
Crop stage in application			BBCH 16	BBCH 21	BBCH 14-15	BBCH 16	BBCH 14-17	BBCH 14-18	BBCH 12-14	BBCH 14-16	BBCH 14-17	BBCH 10-12	BBCH 12-16	BBCH 12-13	BBCH 14-15	BBCH 14-15	BBCH 14-15	BBCH 17-18			
Assessment date			22.07.2020	22.07.2019	06.07.2020	14.07.2020	20.07.2020	31.07.2020	28.07.2020	24.07.2020	27.07.2020	28.07.2020	20.07.2020	19.07.2020	22.07.2020	14.08.2020	14.08.2020	14.08.2020			
Days after application DA-A			300 DA-A	258 DA-A	276 DA-A	273 DA-A	284 DA-A	282 DA-A	279 DA-A	274 DA-A	272 DA-A	279 DA-A	306 DA-A	301 DA-A	307 DA-A	324 DA-A	324 DA-A	309 DA-A			
Crop stage majority			BBCH 89	BBCH 89	BBCH 99	BBCH 97	BBCH 89	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 89	BBCH 97	BBCH 97	BBCH 97	BBCH 99	BBCH 99	BBCH 99	Average	Min.	Max.
N o.	Name	Rate (L/ha)																			
1	Untreated Check	-	6.01	6.01	2.60	3.10	4.03	4.36	4.25	3.75	3.82	4.28	3.54	2.93	2.67	3.34	3.14	3.29	3.82	2.60	6.01
2	CHR/I/A DEL 280 SC	0.06	6.07	5.93	2.50	3.30	4.06	4.34	4.35	3.96	4.12	4.35	3.50	3.19	3.10	3.34	3.19	3.31	3.91	2.50	6.07
3	CHR/I/A DEL 280 SC	0.08	6.11	6.09	2.80	3.30	4.06	4.35	4.39	3.95	4.12	4.43	3.80	2.80	3.08	3.51	3.18	3.41	3.96	2.80	6.11
4	CHR/I/A DEL 280 SC	0.08	6.07	6.05	2.40	3.40	4.24	4.35	4.29	3.95	4.21	4.29	3.57	2.99	3.19	3.63	3.34	3.48	3.97	2.40	6.07
	Asystent+	0.10																			
5	CHR/I/A DEL 280 SC	0.10	5.97	6.06	2.50	3.40	4.16	4.48	4.38	3.97	4.25	4.43	3.53	3.11	3.05	3.46	3.37	3.36	3.97	2.50	6.06
6	CHR/I/A DEL 280 SC	0.12	6.04	5.90	2.40	3.20	4.01	4.45	4.26	4.00	4.24	4.21	3.73	2.87	2.76	3.55	3.27	3.46	3.90	2.40	6.04
7	CHR/I/A DEL 280 SC	0.14	6.00	5.99	2.70	3.50	4.03	4.39	4.53	4.03	3.95	4.28	3.79	3.49	2.90	3.74	3.34	3.42	4.01	2.70	6.00
8	CHR/I/A DEL 280 SC	0.16	6.05	6.03	2.50	3.20	4.07	4.49	4.34	4.12	4.17	4.32	3.38	2.83	3.07	3.68	3.43	3.40	3.94	2.50	6.05
9	Los Ovados 200 SE	0.25	5.97	6.03	2.50	3.20	4.11	4.34	4.35	4.00	4.27	4.35	3.83	2.86	2.82	3.43	3.05	3.32	3.90	2.50	6.03

Product code: CHR/I/ADEL 280 SC  
 Product name: ADEL 280 SC/ PYRIFOS ADE 280 SC  
 Part B – Section 3 - CORE ASSESSMENT  
 Applicant version

	Asystent+	0.10																			
1 0	Decis Mega 50 EW	0.15	6.00	6.10	2.60	3.30	4.05	4.62	4.15	3.92	4.10	4.45	3.69	2.96	2.74	3.65	3.40	3.36	3.94	2.60	6.10
LSD(P=.05)			0.177	0.185	0.370	0.450	0.313	0.277	0.246	0.158	0.294	0.267	0.341	0.417	0.460	0.179	0.206	0.182			

Winter oilseed rape in spring application

table 3.4.2.1-2 The influence of the CHR/I/ADEL 280 SC on yield quantity [t/ha]

Crop code		winter oilseed rape/yield (t/ha)																															
Report code	A.T/2020/027/RZO	A.T/2020/029/RZO	A.T/2020/030/RZO	A.T/2020/031/RZO	A.T/2020/032/RZO	A.T/2020/085/RZO	AI/20/RO/7/NW/ADEL	A.T/2021/001/RZO	A.T/2021/002/RZO	A.T/2021/003/RZO	A.T/2021/004/RZO	A.T/2021/005/RZO	A.T/2021/006/RZO	A.T/2021/007/RZO	A.T/2021/008/RZO	A.T/2021/009/RZO	A.T/2021/010/RZO	A.T/2021/064/RZO	A.T/2021/065/RZO	A.T/2021/066/RZO	C H-W R-I-A D E L-2021-01	C H-W R-I-A D E L-2021-02	C H-W R-I-A D E L-2021-03	C H-W R-I-A D E L-2021-04	S R R P L 21-401-336FE	S R R P L 21-402-336FE	9I/2021	10 I/2 02 1	11 I/2 02 1	12 I/2 02 1			
	08.04.2020	10.04.2020	22.04.2020	24.04.2020	07.05.2020	22.05.2020	23.03.2020	26.03.2021	30.03.2021	30.03.2021	30.03.2021	19.04.2021	17.04.2021	31.03.2021	12.04.2021	10.05.2021	30.04.2021	19.05.2021	12.05.2021	24.05.2021	24.04.2021	24.04.2021	13.05.2021	12.05.2021	11.05.2021	12.05.2021	20.04.2021	20.04.2021	14.05.2021	14.05.2021			
	BBC H 50-55	BBC H 50-55	BBC H 55-59	BBC H 60-65	BBC H 65-67	BBC H 67-69	BBC H 30-34	BBC H 32-35	BBC H 32-35	BBC H 33-37	BBC H 30-35	BBC H 35-39	BBC H 39-50	BBH C 30-35	BBC H 35-39	BBC H 51-55	BBC H 55-59	BBC H 63-67	BBC H 65-67	BBC H 65-69	B B C H 55	B B C H 55	B B C H 65	B B C H 65-67	B B C H 51-53	B B C H 57-59	B B C H 39	B B C H 39	B B C H 65-67	B B C H 65-67			
	23.07.2020	24.07.2020	30.07.2020	24.07.2020	28.07.2020	28.07.2020	25.07.2020	21.07.2021	30.07.2021	03.08.2021	24.07.2021	20.07.2021	21.07.2021	29.07.2021	24.07.2021	29.07.2021	20.07.2021	29.07.2021	24.07.2021	22.07.2021	20.07.2021	20.07.2021	20.07.2021	20.07.2021	29.07.2021	30.07.2021	3.07.2021	2.07.2021	26.07.2021	3.07.2021			
	106 DA-A	105 DA-A	99 DA-A	91 DA-A	82 DA-A	67 DA-A	124 DA-A	117 DA-A	122 DA-A	126 DA-A	116 DA-A	92 DA-A	95 DA-A	120 DA-A	103 DA-A	80 DA-A	81 DA-A	71 DA-A	73 DA-A	59 DA-A	87 DA-A	87 DA-A	68 DA-A	67 DA-A	79 DA-A	79 DA-A	10 I D A-A	9 I D A-A	73 DA-A	77 DA-A			
	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 97	BBC H 89	BBC H 99	BBC H 99	BBC H 89	BBC H 99	BBC H 89	BBC H 89	BBC H 89	BBC H 99	BBC H 89	BBC H 89	BBC H 89	BBC H 89	BBC H 89	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H		
	Crop stage majority	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 97	BBC H 89	BBC H 99	BBC H 89	BBC H 99	BBC H 89	BBC H 89	BBC H 89	BBC H 99	BBC H 89	BBC H 89	BBC H 89	BBC H 89	BBC H 89	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	B B C H	A ver a	M in.



																							89	89	89	89	99	89	99	99	99	99	g	e				
No.	Name	Rate (L / ha)																																				
			1	Un	-	4.22	5.58	5.59	5.62	4.45	4.37	4.90	5.02	3.72	4.56	5.05	3.70	4.31	3.53	4.05	3.93	3.92	4.08	5.08	3.56	3.50	3.40	3.10	3.00	3.00	2.10	2.60	3.60	3.70	2.50	3.99	2.10	5.62
			2	CH	0	4.35	5.70	5.61	5.67	4.56	4.51	4.93	5.08	3.67	4.52	5.07	3.81	4.33	3.90	4.08	3.98	3.89	4.11	4.95	3.59	3.40	3.40	3.50	3.30	3.00	2.10	2.60	3.70	3.80	2.60	4.06	2.10	5.70
			3	CH	0	4.19	5.67	5.54	5.71	4.67	4.57	4.86	5.05	3.83	4.57	5.01	3.90	4.35	3.93	4.19	3.90	3.90	4.27	4.95	3.55	3.30	3.40	3.40	3.40	3.30	2.10	2.60	3.90	3.80	2.90	4.09	2.10	5.71
			4	CH	0	4.14	5.83	5.76	5.71	4.62	4.53	4.93	5.03	3.83	4.53	5.24	3.73	4.48	3.92	4.21	3.98	3.71	4.10	4.99	3.46	3.50	3.30	3.50	3.40	3.20	2.10	3.00	3.90	3.90	3.00	4.12	2.10	5.83
As	0																																					
5	CH	0	4.33	5.64	5.66	5.79	4.71	4.76	4.90	5.00	3.58	4.69	5.24	3.92	4.38	3.82	3.94	3.83	3.86	4.15	4.92	3.66	3.1	3.1	3.1	3.1	3.1	2.1	2.1	3.1	3.1	2.1	4.1	2.1	5.1			

	R/I /A DEL 280 SC	. 1 0																					50	30	60	30	00	10	90	80	80	80	1 0	10	79
6	CH R/I /A DEL 280 SC	0 .1 2	4.28	5.80	5.71	5.72	4.62	4.70	4.87	5.12	3.72	4.59	5.19	3.90	4.47	3.92	4.11	3.97	3.86	4.18	4.85	3.61	3.60	3.30	3.40	3.30	3.20	2.10	2.90	3.90	4.00	3.20	4.14	2.10	5.80
7	CH R/I /A DEL 280 SC	0 .1 4	4.32	5.70	5.76	5.95	4.70	4.72	4.87	5.10	3.75	4.60	5.24	3.94	4.53	3.95	4.10	3.98	3.75	4.24	5.25	3.54	3.50	3.20	3.40	3.20	3.30	2.10	3.00	3.90	4.10	3.30	4.17	2.10	5.95
8	CH R/I /A DEL 280 SC	0 .1 6	4.37	5.66	5.79	5.95	4.73	4.77	4.92	5.18	3.71	4.51	5.30	3.96	4.52	4.11	4.24	3.95	3.84	4.14	4.92	3.57	3.60	3.50	3.50	3.40	3.40	2.10	2.90	3.80	39.00	3.10	5.35	2.10	39.00
9	Lo s Ov ad- os 200 SE	0 .2 5	-	5.61	5.77	5.63	4.62	4.50	-	■	■	■	■	■	■	■	■	3.81	3.71	4.22	4.99	3.47	3.40	3.30	3.60	3.40	3.30	2.10	■	■	37.00	2.80	5.85	2.10	37.00
	As yst ent +	0 .1 0																																	
10	De cis Me ga	0 .1 5	4.66	5.69	5.70	5.69	4.65	4.50	4.90	5.10	3.67	4.54	5.20	3.90	4.33	3.75	4.19	3.88	3.86	4.24	4.93	3.46	3.60	3.30	3.20	3.00	3.30	2.10	2.70	3.80	39.00	2.90	5.26	2.10	39.00

## Winter wheat

table 3.4.2.1-3 The influence of the CHR/I/ADEL 280 SC on yield quantity [t/ha]

Crop code			winter wheat/yield (t/ha)									Average Min Max			
Report code			SRPL20-413-336FE	SRPL20-414-336FE	SRPL20-416-336FE	SRPL20-417-336FE	A.T/2021/088/PO	A.T/2021/089/PO	A.T/2021/090/PO	A.T/2021/091/PO	SRPL21-450-336FE				SRPL21-451-336FE
Application date			30.06.2020	04.07.2020	30.06.2020	30.06.2020	23.06.2021	24.06.2021	28.06.2021	26.06.2021	30.06.2021				30.06.2021
Crop stage in application			BBCH 71-75	BBCH 75-76	BBCH 75	BBCH 75	BBCH 73-75	BBCH 65-71	BBCH 69-73	BBCH 67-69	BBCH 73-75				BBCH 68-71
Assessment date			31.07.2020	13.08.2020	31.07.2020	10.08.2020	24.07.2021	27.07.2021	03.08.2021	28.07.2021	29.07.2021				10.08.2021
Days after application DA-A			31 DA-A	40 DA-A	31 DA-A	41 DA-A	31 DA-A	33 DA-A	36 DA-A	32 DA-A	29 DA-A				41 DA-A
Crop stage majority			BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 89	BBCH 89	BBCH 99				BBCH 89
No.	Product code	Rate (L/ha)													
1	Untreated Check	-	6.50	5.40	6.78	9.29	6.17	6.08	7.52	6.87	5.85	7.20	6.77	5.40	9.29
2	CHR/I/ADE L 280 SC	0.06	7.10	5.60	6.80	9.27	6.51	6.28	7.35	6.80	6.84	7.20	6.98	5.60	9.27
3	CHR/I/ADE L 280 SC	0.08	7.50	5.90	6.83	9.40	6.22	6.29	7.30	7.14	6.87	7.20	7.07	5.90	9.40

4	CHR/I/ADE L 280 SC	0.08	7.80	5.50	6.94	9.34	6.53	6.24	7.57	6.96	7.09	7.50	7.15	5.50	9.34
	Asystent+	0.10													
5	CHR/I/ADE L 280 SC	0.10	7.40	5.60	7.01	9.56	6.30	6.73	7.58	6.94	7.21	7.20	7.15	5.60	9.56
6	CHR/I/ADE L 280 SC	0.12	7.50	5.70	6.98	9.49	6.27	6.19	7.65	7.20	7.37	7.30	7.17	5.70	9.49
7	CHR/I/ADE L 280 SC	0.14	7.60	5.40	7.05	9.54	6.36	6.50	7.83	7.23	7.27	7.10	7.19	5.40	9.54
8	CHR/I/ADE L 280 SC	0.16	7.50	5.80	7.08	9.55	6.45	6.25	7.53	7.23	7.11	7.30	7.18	5.80	9.55
9	Decis Mega 50 EW	0.12 5	7.40	5.10	-	-	6.09	6.50	7.76	7.11	7.01	7.50	6.81	5.10	7.76
10	Fastac Active 50 ME	0.30	7.90	6.10	7.06	9.53	6.15	6.46	7.37	7.17	7.31	7.60	7.27	6.10	9.53
LSD(P=.05)			0.500	0.660	0.562	0.472	0.903	0.482	0.631	0.718	1.138	0.520			

Winter triticale

table 3.4.2.1-4 The influence of the CHR/I/ADEL 280 SC on yield quantity [t/ha]

Crop code			winter triticale/yield (t/ha)																	
Report code			SRPL20 -415- 336FE	SRPL20 -418- 336FE	AI/20/Ps zO/24/G r/02	A.T/202 1/092/P ZO	A.T/202 1/093/P ZO	A.T/202 1/094/P ZO	A.T/202 1/095/P ZO	AI/21/Ps zO/20/P r/1	AI/21/Ps zO/20/R a/2	SRPL21 -452- 336FE	SRPL21 -453- 336FE	SRPL21 -454- 336FE	SRPL21 -455- 336FE	SRPL21 -456- 336FE	SRPL21 -457- 336FE			
Application date			06.07.20 20	06.07.20 20	26.06.20 20	18.06.20 21	23.06.20 21	24.06.20 21	26.06.20 21	03.06.20 21	21.06.20 21	21.06.20 21	09.06.20 21	30.06.20 21	25.06.20 21	15.06.20 21	09.06.20 21			
Crop stage in application			BBCH 73-77	BBCH 75	BBCH 73-75	BBCH 73-77	BBCH 69-73	BBCH 69-73	BBCH 65-69	BBCH 49	BBCH 63	BBCH 65-69	BBCH 51-55	BBCH 71-73	BBCH 73-75	BBCH 71-73	BBCH 61-65			
Assessment date			29.07.20 20	27.07.20 20	29.07.20 20	23.07.20 21	05.08.20 21	27.07.20 21	13.08.20 21	30.07.20 21	28.07.20 21	02.08.20 21	23.08.20 21	03.08.20 21	03.08.20 21	05.08.20 21	30.07.20 21			
Days after applica- tion DA-A			23 DA- A	21 DA- A	33 DA- A	35 DA- A	43 DA- A	33 DA- A	48 DA- A	57 DA- A	37 DA- A	42 DA- A	62 DA- A	34 DA- A	39 DA- A	51 DA- A	51 DA- A			
Crop stage majority min/max			BBCH 89	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 89	BBCH 89	BBCH 97	BBCH 97	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 89	Average	min	max
N o.	Product code	Ra- te (L/ ha)																		
1	Untrea- ted Check	-	7.85	6.85	5.70	7.55	6.93	6.03	6.93	3.78	4.91	5.30	7.16	5.98	7.77	8.61	4.80	6.41	3.78	8.61
2	CHR/I/A DEL 280 SC	0.0 6	8.01	7.15	5.80	7.45	7.07	5.79	7.01	4.01	4.29	5.60	7.15	6.04	8.00	8.98	4.90	6.48	4.01	8.98
3	CHR/I/A DEL 280 SC	0.0 8	7.99	7.14	5.80	7.39	6.87	6.24	7.00	3.84	4.72	5.40	7.21	6.06	8.02	8.88	5.00	6.50	3.84	8.88
4	CHR/I/A DEL 280 SC	0.0 8	8.29	7.16	5.60	7.49	6.71	6.30	7.06	3.89	4.82	5.00	7.16	6.11	7.98	9.14	4.70	6.49	3.89	9.14
	Asy- stent+	0.1 0																		
5	CHR/I/A DEL 280 SC	0.1 0	8.23	7.10	5.50	7.35	7.13	6.20	7.00	3.88	4.71	5.50	7.20	6.06	8.10	8.98	5.40	6.56	3.88	8.98
6	CHR/I/A DEL 280 SC	0.1 2	8.19	7.27	5.50	7.47	7.08	6.19	7.02	3.89	4.58	5.70	7.19	6.07	7.97	9.30	5.00	6.56	3.89	9.30
7	CHR/I/A DEL 280	0.1 4	8.26	7.13	5.80	7.37	7.37	6.10	7.06	3.90	5.07	5.50	7.16	6.19	8.22	9.15	4.90	6.61	3.90	9.15

	SC																			
8	CHR/I/A DEL 280 SC	0.1 6	8.15	7.13	5.70	7.30	7.27	6.23	7.27	3.97	4.85	5.50	7.21	6.13	8.12	9.21	5.10	6.61	3.97	9.21
9	Decis Mega 50 EW	0.1 25	-	-	-	7.48	7.28	5.55	7.19	3.92	4.99	■	■	■	■	■	■	6.07	3.92	7.48
1 0	Fastac Active 50 ME	0..3	-	-	-	■	■	■	■	■	■	5.60	7.19	6.11	8.09	9.26	5.00	6.88	5.00	9.26
LSD(P=.05)			0.497	0.741	0.310	0.603	0.667	0.650	0.604	0.214	0.797	1.670	0.068	0.163	0.431	0.569	0.770			

table 3.4.2.1-5 The influence of the CHR/I/ADEL 280 SC on yield quantity [t/ha]

Crop code			sugar beet/ yield (t/ha)																		
Report code			SRPL2 0-419- 336FE	SRPL2 0-420- 336FE	SRPL2 0-421- 336FE	AI/20/B c/24/Lu/ 01	A.T/202 1/081/B C	A.T/202 1/082/B C	A.T/202 1/083/B C	A.T/202 1/084/B C	A.T/202 1/085/B C	A.T/202 1/086/B C	A.T/202 1/087/B C	AI/21/B C/18/Br /1	AI/21/B C/18/La /2	AI/21/B C/18/M r/3	AI/21/B C/18/K o/4	AI/21/B C/18/ZI			
Application date			22.05.20 20	29.05.20 20	02.06.20 20	18.05.20 20	30.05.20 21	14.06.20 21	26.05.20 21	10.06.20 21	15.06.20 21	04.06.20 21	31.05.20 21	20.05.20 21	24.05.20 21	31.05.20 21	31.05.20 21	25.05.20 21			
Crop stage in application			BBCH 12-13	BBCH1 3-14	BBCH 13-15	BBCH 14-15	BBCH 12-14	BBCH 14-19	BBCH 12-14	BBCH 17-19	BBCH 18-19	BBCH 12-16	BBCH 12-16	BBCH 13	BBCH 12-13	BBCH 13-14	BBCH 13-14	BBCH 13			
Assessment date			06.11.20 20	22.10.20 20	20.10.20 20	02.10.20 20	06.10.20 21	08.10.20 21	13.09.20 21	08.10.20 21	02.09.20 21	07.10.20 21	17.09.20 21	30.09.20 21	15.10.20 21	21.10.20 21	18.10.20 21	19.10.20 21			
Days after appli- cation DA-A			168 DA-A	146 DA-A	140 DA-A	137 DA-A	129 DA-A	116 DA-A	110 DA-A	120 DA-A	79 DA- A	125 DA-A	109 DA-A	133 DA-A	144 DA-A	143 DA-A	140 DA-A	147 DA-A			
Crop stage majority min/max			BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 97	BBCH 97	BBCH 97	BBCH 97	BBCH 97	Avera- ge	Min.	Max.
N o.	Name	Rat e (L/ ha)					I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
1	Untreat- ed Check	-	80.08	63.83	65.14	72.31	59.81	88.53	56.84	58.61	48.53	66.78	53.42	59.48	56.34	44.21	55.67	38.90	60.53	38.90	88.53
2	CHR/I/ ADEL 280 SC	0.0 6	80.31	65.99	66.14	65.15	58.47	87.41	56.12	62.49	52.37	68.40	56.52	60.39	57.25	43.02	56.94	38.76	60.98	38.76	87.41
3	CHR/I/ ADEL 280 SC	0.0 8	80.35	68.31	67.57	69.40	60.05	92.34	60.07	62.78	49.34	67.89	56.57	59.71	54.96	45.95	57.00	38.12	61.90	38.12	92.34
4	CHR/I/ ADEL 280 SC	0.0 8	80.58	66.01	66.00	64.19	65.52	91.35	60.29	63.39	53.80	68.28	56.96	60.72	58.88	43.32	56.34	37.63	62.08	37.63	91.35
	Asy- stent+	0.1 0																			
5	CHR/I/ ADEL 280 SC	0.1 0	80.42	67.79	66.93	67.62	62.30	91.44	61.71	62.04	50.01	68.26	57.03	60.86	55.27	45.00	57.33	40.43	62.15	40.43	91.44
6	CHR/I/ ADEL 280 SC	0.1 2	80.35	70.90	67.61	67.88	61.15	90.54	59.59	59.81	50.30	69.56	57.09	60.61	56.13	44.91	57.19	41.20	62.18	41.20	90.54
7	CHR/I/	0.1	79.67	70.49	68.85	66.19	61.24	92.16	58.18	61.05	50.41	69.35	55.62	59.00	56.85	45.15	56.93	39.57	61.92	39.57	92.16

Product code: CHR/I/ADEL 280 SC  
Product name: ADEL 280 SC/ PYRIFOS ADE 280 SC  
Part B – Section 3 - CORE ASSESSMENT  
Applicant version

	ADEL 280 SC	4																			
8	CHR/I/ ADEL 280 SC	0.1 6	80.14	68.35	69.39	66.49	58.85	93.62	58.48	62.74	49.15	72.37	59.18	58.89	54.85	44.05	56.96	41.14	62.17	41.14	93.62
1 0	Decis Mega 50 EW	0.2 0	80.24	71.72	69.75	70.75	57.43	91.96	58.84	63.92	51.06	68.00	53.76	60.65	57.79	44.27	56.62	38.85	62.23	38.85	91.96
LSD(P=.05)			0.792	4.920	6.546	6.787	8.22	9.61	4.50	6.24	5.75	7.57	9.75	3.05	4.05	4.65	1.35	2.70			



**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 winter oilseed rape, winter wheat, winter triticale and sugar beet.

Comments of zRMS:	Yield of winter oiseed rape, winter wheat winter triticale sugar beet [t/ha] was tesed in 91 efficaccy trials. No negative effects on the yield of treated plants or plant products (quantity of grain and roots) are expected after the application of CHR/I/ADEL 280 SC SL.
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### **3.4.3 Effects on the quality of plants or plant products (KCP 6.4.3)**

91 studies conducted in 2019, 2020 and 2021 in Poland on winter oilseed rape 50 trials, winter wheat 10 trials, winter triticale 15 trials, sugar beet 16 trials had no negative impact of CHR/I/ADEL 280 SC on quality of plants.

Influence of CHR/I/ADEL 280 SC on the yield of grains was evaluated in selectivity research. The yield was evaluated on the basis of harvested grains quantity from one hectare (t/ha). The influence of the tested product on quantity of grain was evaluated in 91 field experiments (in winter oilseed rape 50 trials, winter wheat 10 trials, winter triticale 15 trials, sugar beet 16 trials) in Poland in 2019, 2020 and 2021.

Details of the data shows tables below.

table 3.4.3.1-1 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter oilseed rape HLW = weight 100 Ltr (kg/hL) (in autumn application)

Crop code			winter oilseed rape/HLW (kg/hL)														
Report code		A.T/2019/ 085/RZO	A.T/2019/ 086/RZO	AI/19/RO/ 27/ZI/AD EL	A.T/2020/ 116/RZO	A.T/2020/ 117/RZO	A.T/2020/ 118/RZO	A.T/2020/ 119/RZO	A.T/2020/ 120/RZO	A.T/2020/ 121/RZO	AI/20/RO/ 36/Pr/1	AI/20/RO/ 36/ZI/2	AI/20/RO/ 36/Br/3				
Application date			26.09.2019	07.11.2019	15.10.2019	09.10.2020	22.10.2020	22.10.2020	23.10.2020	28.10.2020	22.10.2020	17.09.2020	21.09.2020				18.09.2020
Crop stage in appli- cation			BBCH 16	BBCH 21	BBCH 16	BBCH 14- 17	BBCH 14- 18	BBCH 12- 14	BBCH 14.16	BBCH 14- 17	BBCH 10- 12	BBCH 12- 16	BBCH 12- 13				BBCH 14- 15
Assessment date			22.07.2020	22.07.2019	21.08.2020	09.08.2021	07.09.2021	24.08.2021	04.08.2021	23.08.2021	24.08.2021	26.08.2021	26.08.2021				26.08.2021
Days after applica- tion DA-A			300 DA-A	258 DA-A	311 DA-A	304 DA-A	320 DA-A	306 DA-A	285 DA-A	299 DA-A	306 DA-A	343 DA-A	339 DA-A				342 DA-A
Crop stage majority			BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 99	Average	Min.	Max.
N o.	Name	Rate (L/ha )															
1	Untrea- ted Check	-	68.75	68.20	69.38	70.20	64.70	63.08	67.33	67.48	62.93	68.75	69.53	63.30	66.97	62.93	70.20
2	CHR/I/ ADEL 280 SC	0.06	68.33	68.60	69.73	69.68	64.85	63.63	67.65	67.18	63.15	67.95	69.38	63.15	66.94	63.15	69.73
3	CHR/I/ ADEL 280 SC	0.08	68.23	67.48	70.08	69.68	64.73	63.65	67.58	67.43	63.03	68.30	68.83	64.55	66.96	63.03	70.08
4	CHR/I/ ADEL 280 SC	0.08	68.38	68.25	69.43	69.78	65.18	63.28	67.53	67.25	62.60	68.93	68.55	64.23	66.95	62.60	69.78
	Asy- stent+	0.10															
5	CHR/I/ ADEL 280 SC	0.10	68.15	68.13	69.05	69.78	64.23	64.88	67.28	67.58	63.55	98.23	68.88	64.25	69.50	63.55	98.23
6	CHR/I/ ADEL 280 SC	0.12	68.50	67.88	69.70	70.10	64.33	63.83	67.78	67.10	63.23	68.08	68.58	63.83	66.91	63.23	70.10
7	CHR/I/ ADEL 280 SC	0.14	68.48	68.20	70.00	70.13	64.80	64.00	67.80	67.28	62.55	67.80	69.35	50.13	65.88	50.13	70.13
8	CHR/I/ ADEL 280 SC	0.16	68.55	68.05	69.95	69.98	64.58	64.00	67.30	67.45	63.60	68.15	69.18	64.60	66.99	63.60	69.98

9	Los Ovados 200 SE	0.25	68.78	68.53	69.28	69.70	64.95	63.90	67.30	67.58	62.98	68.18	69.13	62.85	66.93	62.85	69.70
	Asy-stent+	0.10															
10	Decis Mega 50 EW	0.15	68.63	67.90	69.43	70.25	48.18	63.40	67.68	67.33	63.03	68.15	69.28	64.40	65.64	48.18	70.25
LSD(P=.05)			0.704	0.715	0.844	0.638	14.734	1.058	0.643	0.521	1.113	2.238	0.901	13.549			

table 3.4.3.1-2 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter oilseed rape HLW = weight 100 Ltr (kg/hL) (in spring application)

Crop code			winter oilseed rape/HLW (kg/hL)																								
Report code			A.T/2 020/0 27/R ZO	A.T/2 020/0 29/R ZO	A.T/2 020/0 30/R ZO	A.T/2 020/0 31/R ZO	A.T/2 020/0 32/R ZO	A.T/2 020/0 85/R ZO	AI/20 /RO/ 7/NW /ADE L	A.T/2 021/0 01/R ZO	A.T/2 021/0 02/R ZO	A.T/2 021/0 03/R ZO	A.T/2 021/0 04/R ZO	A.T/2 021/0 05/R ZO	A.T/2 021/0 06/R ZO	A.T/2 021/0 07/R ZO	A.T/2 021/0 08/R ZO	A.T/2 021/0 09/R ZO	A.T/2 021/0 10/R ZO	A.T/2 021/0 64/R ZO	A.T/2 021/0 65/R ZO	A.T/2 021/0 66/R ZO	SRP L21- 401- 336F E	SRP L21- 402- 336F E			
Application date			08.04. 2020	10.04. 2020	22.04. 2020	24.04. 2020	07.05. 2020	22.05. 2020	23.03. 2020	26.03. 2021	30.03. 2021	30.03. 2021	30.03. 2021	19.04. 2021	17.04. 2021	31.03. 2021	12.04. 2021	10.05. 2021	30.04. 2021	19.05. 2021	12.05. 2021	24.05. 2021	11.05. 2021	12.05. 2021			
Crop stage in applica- tion			BBC H 50- 55	BBC H 50- 55	BBC H 55- 59	BBC H 60- 65	BBC H 65- 67	BBC H 67- 69	BBC H 30- 34	BBC H 32- 35	BBC H 32- 35	BBC H 33- 37	BBC H 30- 35	BBC H 35- 39	BBC H 39- 50	BBH C 30- 35	BBC H 35- 39	BBC H 51- 55	BBC H 55- 59	BBC H 63- 67	BBC H 65- 67	BBC H 65- 69	BBC H 51- 53	BBC H 57- 59			
Assessment date			03.08. 2020	05.08. 2020	21.09. 2020	14.08. 2020	26.08. 2020	18.08. 2020	21.08. 2020	10.08. 2021	12.08. 2021	06.09. 2021	18.08. 2021	16.08. 2021	24.08. 2021	19.08. 2021	27.08. 2021	26.08. 2021	18.08. 2021	18.08. 2021	20.08. 2021	20.08. 2021	29.07. 2021	26.08. 2021			
Days after application DA-A			117 DA-A	117 DA-A	152 DA-A	112 DA-A	111 DA-A	88 DA-A	151 DA-A	137 DA-A	135 DA-A	160 DA-A	141 DA-A	119 DA-A	129 DA-A	141 DA-A	137 DA-A	108 DA-A	110 DA-A	91 DA-A	100 DA-A	88 DA-A	79 DA-A	106 DA-A			
Crop stage majority			BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 89	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99			
N o .	Na- me	R a t e ( L /h a)																									
1	Unt- rea- ted Che ck	-	70.93	69.00	68.20	68.50	68.68	68.65	52.10	64.88	67.38	65.50	67.70	64.95	64.15	65.18	65.55	64.23	64.08	64.78	64.48	67.78	67.18	71.20	66.14	52.10	71.20

2	CH R/I/ AD EL 280 SC	0. 0 6	70.75	68.80	68.13	68.58	69.00	68.18	51.57	64.58	67.48	65.30	67.88	64.65	64.78	65.20	64.38	64.50	64.05	64.40	64.83	68.03	67.28	71.20	66.07	51.57	71.20
3	CH R/I/ AD EL 280 SC	0. 0 8	71.08	68.68	68.45	69.00	68.85	68.03	50.83	64.38	67.75	65.25	68.20	64.63	64.53	65.53	65.10	64.48	64.35	64.58	63.78	68.15	65.78	71.10	66.02	50.83	71.10
4	CH R/I/ AD EL 280 SC	0. 0 8	71.18	69.00	68.18	69.00	68.65	68.03	51.53	64.20	67.53	65.50	68.05	64.83	65.03	64.73	64.98	64.43	64.06	64.80	64.38	67.88	65.28	71.10	66.02	51.53	71.18
	Asy stent +	0. 1 0																									
5	CH R/I/ AD EL 280 SC	0. 1 0	70.98	69.23	68.83	68.95	68.50	68.53	51.21	64.78	67.25	65.18	67.98	64.90	64.73	65.05	65.48	64.43	64.08	64.13	64.63	68.00	66.23	70.90	66.09	51.21	70.98
6	CH R/I/ AD EL 280 SC	0. 1 2	71.38	69.03	68.13	69.03	68.55	68.33	50.95	64.55	67.30	65.40	68.03	64.30	65.35	64.93	65.28	64.73	64.25	64.48	64.18	67.98	66.58	71.20	66.09	50.95	71.38
7	CH R/I/ AD EL 280 SC	0. 1 4	70.85	68.73	68.43	68.38	68.38	68.68	50.97	64.55	67.50	65.43	52.78	64.50	64.63	65.28	65.23	64.53	64.15	64.15	64.20	68.25	65.80	71.30	65.30	50.97	71.30
8	CH R/I/ AD EL 280 SC	0. 1 6	71.23	69.00	68.23	68.88	68.65	68.43	51.41	64.95	67.48	65.53	68.03	64.83	65.43	65.03	65.63	64.53	63.95	64.18	64.35	68.00	65.95	71.10	66.13	51.41	71.23
9	Los Ova	0. 2	-	69.23	68.13	68.38	68.53	68.70	-	■	■	■	■	■	■	■	■	65.20	64.28	64.95	64.60	68.18	67.00	70.90	67.34	64.28	70.90

table 3.4.3.1-3 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter wheat HLW = weight 100 Ltr (kg/hL)

table 3.4.3.1-3 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter wheat HLW = weight 100 Ltr (kg/hL)

Crop code			winter wheat/HLW (kg)												
Report code			SRPL20-413-336FE	SRPL20-414-336FE	SRPL20-416-336FE	SRPL20-417-336FE	A.T/2021/088/PO	A.T/2021/089/PO	A.T/2021/090/PO	A.T/2021/091/PO	SRPL21-450-336FE	SRPL21-451-336FE			
Application date			30.06.2020	04.07.2020	30.06.2020	30.06.2020	23.06.2021	24.06.2021	28.06.2021	26.06.2021	30.06.2021	30.06.2021			
Crop stage in application			BBCH 71-75	BBCH 75-76	BBCH 75	BBCH 75	BBCH 73-75	BBCH 65-71	BBCH 69-73	BBCH 67-69	BBCH 73-75	BBCH 68-71			
Assessment date			31.07.2020	13.08.2020	03.08.2020	02.08.2020	31.08.2021	31.08.2021	06.09.2021	01.09.2021	29.07.2021	10.08.2021			
Days after application DA-A			31 DA-A	40 DA-A	34 DA-A	33 DA-A	69 DA-A	68 DA-A	70 DA-A	67 DA-A	29 DA-A	41 DA-A			
Crop stage majority			BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	Average	Min	Max
No.	Product code	Rate (L/ha)													
1	Untreated Check	-	74.88	74.48	77.98	79.95	74.80	71.73	71.73	66.73	74.60	76.68	74.36	66.73	79.95
2	CHR/I/AD EL 280 SC	0.06	79.33	75.85	78.33	80.65	71.55	74.08	71.75	67.35	75.30	74.15	74.83	67.35	80.65

3	CHR/I/AD EL 280 SC	0.08	81.83	76.08	78.58	80.48	71.10	74.15	71.35	68.38	77.00	72.10	75.11	68.3 8	81.8 3
4	CHR/I/AD EL 280 SC	0.08	85.63	74.65	78.45	80.88	71.13	72.75	70.78	66.75	78.30	79.20	75.85	66.7 5	85.6 3
	Asystent+	0.10													
5	CHR/I/AD EL 280 SC	0.10	80.28	75.58	78.63	80.55	73.63	71.88	72.35	68.85	76.00	75.60	75.34	68.8 5	80.5 5
6	CHR/I/AD EL 280 SC	0.12	82.28	76.70	78.13	80.88	73.35	73.13	72.43	67.50	76.50	80.38	76.13	67.5 0	82.2 8
7	CHR/I/AD EL 280 SC	0.14	82.55	75.03	78.50	80.80	72.70	72.38	73.90	67.38	75.70	75.30	75.42	67.3 8	82.5 5
8	CHR/I/AD EL 280 SC	0.16	83.73	75.08	78.93	80.83	73.43	70.70	71.78	68.33	72.70	73.95	74.95	68.3 3	83.7 3
9	Decis Mega 50 EW	0.12 5	83.03	74.68	-	-	71.73	73.43	73.10	68.33	77.20	74.60	74.51	68.3 3	83.0 3
10	Fastac Active 50 ME	0.30	82.15	76.03	79.30	80.70	72.93	72.28	71.20	69.00	73.40	74.55	75.15	69.0 0	82.1 5
LSD(P=.05)			4.531	1.947	1.360	1.043	2.925	4.820	2.565	2.600	8.620	4.200			

table 3.4.3.1-4 The influence of the CHR/I/ADEL 280 SC on quality of yield

Winter triticale HLW = weight 100 Ltr (kg/hL)

Crop code			winter triticale/HLW (kg)																
Report code			SRPL20- 415- 336FE	SRPL20- 418- 336FE	A.T/2021/ 092/PŽO	A.T/2021/ 093/PŽO	A.T/2021/ 094/PŽO	A.T/2021/ 095/PŽO	AI/21/Psz O/20/Pr/1	AI/21/Psz O/20/Ra/2	SRPL21- 452- 336FE	SRPL21- 453- 336FE	SRPL21- 454- 336FE	SRPL21- 455- 336FE	SRPL21- 456- 336FE	SRPL21- 457- 336FE			
Application date			06.07.202 0	06.07.202 0	18.06.202 1	23.06.202 1	24.06.202 1	26.06.202 1	03.06.202 1	21.06.202 1	21.06.202 1	09.06.202 1	30.06.202 1	25.06.202 1	15.06.202 1	09.06.202 1			
Crop stage in appli- cation			BBCH 73- 77	BBCH 75	BBCH 73- 77	BBCH 69- 73	BBCH 69- 73	BBCH 65- 69	BBCH 49	BBCH 63	BBCH 65- 69	BBCH 51- 55	BBCH 71- 73	BBCH 73- 75	BBCH 71- 73	BBCH 61- 65			
Assessment date			29.07.202 0	27.07.202 0	03.09.202 1	30.08.202 1	30.08.202 1	08.09.202 1	23.08.202 1	23.08.202 1	02.08.202 1	23.08.202 1	03.08.202 1	03.08.202 1	05.08.202 1	30.07.202 1			
Days after applica- tion DA-A			23 DA-A	21 DA-A	77 DA-A	68 DA-A	67 DA-A	74 DA-A	81 DA-A	63 DA-A	42 DA-A	62 DA-A	34 DA-A	39 DA-A	51 DA-A	51 DA-A			
Crop stage majority min/max			BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 89	Ave- rage	mi n	ma x
N o.	Product code	Ra- te (L/h a)																	
1	Untreated	-	66.85	76.28	66.78	61.15	70.30	67.70	71.93	68.15	69.90	70.70	72.40	70.00	70.10	74.28	69.75	61.	76.

	Check																	15	28
2	CHR/I/A DEL 280 SC	0.06	65.20	77.33	65.90	63.85	69.88	66.60	72.73	68.58	72.18	70.70	72.35	70.00	70.10	73.85	69.95	63.85	77.33
3	CHR/I/A DEL 280 SC	0.08	65.03	76.53	66.33	63.48	71.18	67.68	71.48	68.15	72.43	70.60	72.28	70.20	70.20	75.10	70.05	63.48	76.53
4	CHR/I/A DEL 280 SC	0.08	68.38	76.50	66.60	61.68	70.83	67.15	72.03	67.90	70.48	70.60	72.23	70.30	70.00	74.38	69.93	61.68	76.50
	Asy- stent+	0.10																	
5	CHR/I/A DEL 280 SC	0.10	68.93	76.20	66.88	64.30	71.05	68.20	72.15	67.18	73.65	70.70	72.50	70.70	70.50	74.38	70.52	64.30	76.20
6	CHR/I/A DEL 280 SC	0.12	66.40	76.48	66.45	63.60	70.25	68.20	71.00	68.53	71.38	70.70	72.45	70.10	70.00	75.00	70.04	63.60	76.48
7	CHR/I/A DEL 280 SC	0.14	68.80	76.40	66.63	64.23	69.58	68.13	71.75	68.43	72.18	70.70	72.48	70.00	69.90	77.08	70.45	64.23	77.08
8	CHR/I/A DEL 280 SC	0.16	63.35	76.35	67.03	63.33	70.70	68.10	71.48	68.88	71.18	70.80	72.43	70.50	70.40	75.38	69.99	63.33	76.35
9	Decis Mega 50 EW	0.12 5	-	-	65.65	64.00	71.00	68.65	71.93	69.35	■	■	■	■	■	■	68.43	64.00	71.93
10	Fastac Active 50 ME	0..3	-	-	■	■	■	■	■	■	70.88	70.80	72.43	70.10	70.60	74.78	71.60	70.10	74.78
LSD(P=.05)			6.709	3.729	1.852	2.416	2.889	1.769	1.673	3.069	2.688	0.330	0.209	0.840	1.060	2.352			

table 3.4.3.1-5 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter oilseed rape thousand seeds weight (in autumn application) (g)

Crop code	winter oilseed rape/TSW (g)															
Report code	A.T/2019 /085/RZ O	A.T/2019 /086/RZ O	4I/2020	AI/19/R O/27/ZI/ ADEL	A.T/2020 /116/RZ O	A.T/2020 /117/RZ O	A.T/2020 /118/RZ O	A.T/2020 /119/RZ O	A.T/2020 /120/RZ O	A.T/2020 /121/RZ O	AI/20/R O/36/Pr/ 1	AI/20/R O/36/ZI/ 2	AI/20/R O/36/Br/ 3	4I/2021	5I/2021	6I/2021
Application date	26.09.20 19	07.11.20 19	04.10.20 19	15.10.20 19	09.10.20 20	22.10.20 20	22.10.20 20	23.10.20 20	28.10.20 20	22.10.20 20	17.09.20 20	21.09.20 20	18.09.20 20	24.09.20 20	24.09.20 20	09.10.20 20

Crop stage in application			BBCH 16	BBCH 21	BBCH 14-15	BBCH 16	BBCH 14-17	BBCH 14-18	BBCH 12-14	BBCH 14-16	BBCH 14-17	BBCH 10-12	BBCH 12-16	BBCH 12-13	BBCH 14-15	BBCH 14-15	BBCH 14-15	BBCH 17-18			
Assessment date			22.07.2020	22.07.2019	29.07.2020	21.08.2020	09.08.2021	07.09.2021	24.08.2021	04.08.2021	23.08.2021	24.08.2021	26.08.2021	26.08.2021	26.08.2021	24.08.2021	24.08.2021	03.09.2021			
Days after application DA-A			300 DA-A	258 DA-A	299 DA-A	311 DA-A	304 DA-A	320 DA-A	306 DA-A	285 DA-A	299 DA-A	306 DA-A	343 DA-A	339 DA-A	342 DA-A	334 DA-A	334 DA-A	329 DA-A			
Crop stage majority			BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	Ave	M	Max
N o.	Name	Rate (L/ha)																			
1	Untreated Check	-	3.45	3.57	4.38	4.66	4.86	4.80	5.20	4.56	5.03	5.50	5.25	4.99	4.31	4.90	5.30	5.25	4.75	3.45	5.50
2	CHR/I/ADEL 280 SC	0.06	3.41	3.44	4.44	4.66	4.49	4.91	5.07	4.46	4.91	5.45	5.41	5.03	4.58	5.00	5.29	5.35	4.74	3.41	5.45
3	CHR/I/ADEL 280 SC	0.08	3.38	3.61	4.69	4.79	4.52	4.97	4.97	4.55	5.05	5.39	5.30	4.96	4.57	5.00	5.32	5.43	4.78	3.38	5.43
4	CHR/I/ADEL 280 SC	0.08	3.49	3.61	4.55	4.59	4.77	4.90	5.00	4.56	4.90	5.26	5.41	4.91	4.54	5.00	5.38	5.37	4.76	3.49	5.41
	Asystent+	0.10																			
5	CHR/I/ADEL 280 SC	0.10	3.47	3.70	4.57	4.74	4.48	5.02	4.92	4.62	5.18	5.47	5.32	4.95	4.48	5.00	5.34	5.30	4.78	3.47	5.47
6	CHR/I/ADEL 280 SC	0.12	3.43	3.80	4.74	5.03	4.54	4.90	5.06	4.57	5.08	5.59	5.20	4.96	4.41	4.90	5.33	5.35	4.80	3.43	5.59
7	CHR/I/ADEL 280 SC	0.14	3.36	3.63	4.64	4.76	4.51	4.94	4.96	4.55	5.04	5.33	5.38	5.06	4.23	5.10	5.41	5.31	4.76	3.36	5.41
8	CHR/I/ADEL 280 SC	0.16	3.42	3.52	4.72	4.64	4.56	4.90	5.02	4.59	5.03	5.68	5.27	4.98	4.44	5.00	5.39	5.28	4.78	3.42	5.68
9	Los Ovados 200 SE	0.25	3.37	3.99	4.49	4.92	4.70	4.91	4.93	4.56	5.14	5.43	5.27	5.06	4.30	5.10	5.33	5.25	4.80	3.37	5.43
	Asystent+	0.10																			
10	Decis Mega	0.15	3.41	3.44	4.65	4.66	4.34	5.03	5.74	4.49	5.01	5.82	5.26	4.95	4.46	5.00	5.37	5.24	4.80	3.41	5.82



table 3.4.3.1-6 The influence of the CHR/I/ADEL 280 SC on quality of yield	
Winter oilseed rape thousand seeds weight (in spring application) (g)	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Crop code		winter oilseed rape/TSW (g)																												
Report code	A.T/2020/027/RZ O	A.T/2020/029/RZ O	A.T/2020/030/RZ O	A.T/2020/031/RZ O	A.T/2020/032/RZ O	A.T/2020/085/RZ O	AI/20/RO/7/NW/ADEL	A.T/2021/001/RZ O	A.T/2021/002/RZ O	A.T/2021/003/RZ O	A.T/2021/004/RZ O	A.T/2021/005/RZ O	A.T/2021/006/RZ O	A.T/2021/007/RZ O	A.T/2021/008/RZ O	A.T/2021/009/RZ O	A.T/2021/010/RZ O	A.T/2021/064/RZ O	A.T/2021/065/RZ O	A.T/2021/066/RZ O	C.H-WR-I-A D E L-20 21-01	C.H-WR-I-A D E L-20 21-02	C.H-WR-I-A D E L-20 21-03	C.H-WR-I-A D E L-20 21-04	S R P L2 1-40 1-33 6FE	S R P L2 1-40 2-33 6FE	9L/20 21	10 I/2 02 1	11 I/2 02 1	12 I/2 02 1
Application date	08.04.2020	10.04.2020	22.04.2020	24.04.2020	07.05.2020	22.05.2020	23.03.2020	26.03.2021	30.03.2021	30.03.2021	30.03.2021	19.04.2021	17.04.2021	31.03.2021	12.04.2021	10.05.2021	30.04.2021	19.05.2021	12.05.2021	24.05.2021	24.04.2021	44.03.2021	13.05.2021	12.05.2021	11.05.2021	12.05.2021	20.04.2021	20.04.2021	14.05.2021	14.05.2021
Crop stage in application	BBC H 50-55	BBC H 50-55	BBC H 55-59	BBC H 60-65	BBC H 65-67	BBC H 67-69	BBC H 30-34	BBC H 32-35	BBC H 32-35	BBC H 33-37	BBC H 30-35	BBC H 35-39	BBC H 39-50	BBH C 30-35	BBC H 35-39	BBC H 51-55	BBC H 55-59	BBC H 63-67	BBC H 65-67	BBC H 65-69	BBC H 55	BBC H 55	BBC H 65	BBC H 65	BBC H 51-53	BBC H 57-59	BBC H 39	BBC H 39	BBC H 65-67	BBC H 65-67
Assessment date	03.08.2020	05.08.2020	21.09.2020	14.08.2020	26.08.2020	18.08.2020	21.08.2020	10.08.2021	12.08.2021	06.09.2021	18.08.2021	16.08.2021	24.08.2021	19.08.2021	27.08.2021	26.08.2021	18.08.2021	18.08.2021	20.08.2021	20.08.2021	20.07.2021	20.07.2021	20.07.2021	20.07.2021	29.07.2021	26.08.2021	02.08.2021	30.07.2021	30.07.2021	03.08.2021
Days after application DA-A	117 DA-A	117 DA-A	152 DA-A	112 DA-A	111 DA-A	88 DA-A	151 DA-A	137 DA-A	135 DA-A	160 DA-A	141 DA-A	119 DA-A	129 DA-A	141 DA-A	137 DA-A	108 DA-A	110 DA-A	91 DA-A	100 DA-A	88 DA-A	87 DA-A	87 DA-A	68 DA-A	67 DA-A	79 DA-A	106 DA-A	104 DA-A	101 DA-A	77 DA-A	81 DA-A

Crop stage majority			BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 89	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 89	BBC H 89	BBC H 89	BBC H 89	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	Average	Min.	Max.
No.	Name	Rate (L / ha)																																					
1	Untreated Check	-	4.20	3.40	4.84	3.47	5.27	5.14	5.83	4.41	4.81	4.44	4.22	3.63	5.28	4.82	5.20	5.47	4.01	4.81	4.35	4.58	4.807	4.83	4.54	4.59	4.23	4.12	4.53	4.58	4.27	4.33	4.57	3.40	5.83				
2	CH R/I /A DEL 280 SC	0 · 0 6	4.38	3.20	4.86	3.37	4.96	5.11	5.97	4.43	4.38	4.33	4.26	3.69	5.14	4.82	5.46	5.57	3.94	5.01	4.25	4.44	5.142	4.75	4.86	4.64	4.10	4.12	4.53	4.60	4.40	4.47	4.57	3.20	5.97				
3	CH R/I /A DEL 280 SC	0 · 0 8	4.20	3.48	4.92	3.27	5.17	5.19	6.00	4.45	5.03	4.53	4.41	3.65	5.60	5.08	5.68	5.33	3.93	5.05	4.38	4.64	4.901	4.74	4.66	4.75	4.05	4.11	4.58	4.64	4.32	4.53	4.64	3.27	6.00				
4	CH R/I /A DEL 280 SC	0 · 0 8	4.18	3.45	5.09	3.45	4.84	5.25	5.85	4.46	4.98	4.49	4.50	3.62	5.53	4.88	5.58	5.66	4.07	4.85	4.37	4.41	4.87	4.64	4.96	4.76	4.40	4.11	4.53	4.65	4.48	4.54	4.65	3.45	5.85				

[illegible]

[illegible][illegible]

Crop code			winter wheat/ TGW (g)												
Report code			SRPL20-413-336FE	SRPL20-414-336FE	SRPL20-416-336FE	SRPL20-417-336FE	A.T/2021/088/P O	A.T/2021/089/P O	A.T/2021/090/P O	A.T/2021/091/P O	SRPL21-450-336FE	SRPL21-451-336FE			
Application date			30.06.2020	04.07.2020	30.06.2020	30.06.2020	23.06.2021	24.06.2021	28.06.2021	26.06.2021	30.06.2021	30.06.2021			
Crop stage in application			BBCH 71-75	BBCH 75-76	BBCH 75	BBCH 75	BBCH 73-75	BBCH 65-71	BBCH 69-73	BBCH 67-69	BBCH 73-75	BBCH 68-71			
Assessment date			31.07.2020	20.08.2020	03.08.2020	03.08.2020	31.08.2021	31.08.2021	06.09.2021	01.09.2021	29.07.2021	10.08.2021			
Days after application DA-A			31 DA-A	47 DA-A	34 DA-A	34 DA-A	69 DA-A	68 DA-A	70 DA-A	67 DA-A	29 DA-A	41 DA-A			
Crop stage majority			BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89			
No .	Product code	Rate (L/ha )					I	I	I	I	I	I	Avera-ge	Min.	Max.

1	Untreated Check	-	36.24	41.98	49.13	49.63	32.76	30.98	39.85	32.48	36.20	38.13	38.74	30.98	49.63
2	CHR/I/ADEL 280 SC	0.06	38.29	40.20	49.23	50.15	31.40	34.49	38.01	36.97	35.70	38.95	39.34	31.40	50.15
3	CHR/I/ADEL 280 SC	0.08	39.76	40.80	49.55	50.45	30.79	36.87	39.27	33.72	36.40	38.50	39.61	30.79	50.45
4	CHR/I/ADEL 280 SC	0.08	39.31	41.28	49.23	50.73	29.39	31.36	38.51	33.09	35.80	38.63	38.73	29.39	50.73
	Asystent+	0.10													
5	CHR/I/ADEL 280 SC	0.10	38.84	41.73	49.73	50.38	33.23	33.32	39.77	32.93	36.30	38.60	39.48	32.93	50.38
6	CHR/I/ADEL 280 SC	0.12	30.11	44.20	49.43	50.68	31.78	32.56	38.88	32.98	35.90	37.83	38.44	30.11	50.68
7	CHR/I/ADEL 280 SC	0.14	37.58	42.05	49.55	50.68	31.70	34.95	40.77	32.97	36.10	39.30	39.57	31.70	50.68
8	CHR/I/ADEL 280 SC	0.16	38.83	41.88	49.95	50.70	31.02	31.67	39.13	35.15	36.00	38.25	39.26	31.02	50.70
9	Decis Mega 50 EW	0.125	38.08	41.28	-	-	31.88	32.41	41.20	33.14	36.70	38.28	36.62	31.88	41.20
10	Fastac Active 50 ME	0.30	38.09	42.35	49.90	50.93	30.15	33.99	38.36	34.46	35.70	39.20	39.31	30.15	50.93
LSD(P=.05)			7.763	2.337	1.204	1.285	3.958	6.736	2.646	4.000	2.060	2.277			

table 3.4.3.1-8 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter triticale thousand grain weight (g)

Crop code	winter triticale/ TGW (g)																	
Report code	SRPL 20- 415- 336FE	SRPL 20- 418- 336FE	AI/20/PszO/2 4/Gr/02	A.T/2021/09 2/PZO	A.T/2021/09 3/PZO	A.T/2021/09 4/PZO	A.T/2021/09 5/PZO	AI/21/PszO/ 20/Pr/1	AI/21/PszO/ 20/Ra/2	SRPL 21- 452- 336FE	SRPL 21- 453- 336FE	SRPL 21- 454- 336FE	SRPL 21- 455- 336FE	SRPL 21- 456- 336FE	SRPL 21- 457- 336FE			
Application date	06.07. 2020	06.07. 2020	26.06.2020	18.06.2021	23.06.2021	24.06.2021	26.06.2021	03.06.2021	21.06.2021	21.06. 2021	09.06. 2021	30.06. 2021	25.06. 2021	15.06. 2021	09.06. 2021			
Crop stage in application	BBCH 73-77	BBCH 75	BBCH 73-75	BBCH 73- 77	BBCH 69- 73	BBCH 69- 73	BBCH 65- 69	BBCH 49	BBCH 63	BBCH 65-69	BBCH 51-55	BBCH 71-73	BBCH 73-75	BBCH 71-73	BBCH 61-65			
Assessment date	29.07. 2020	28.07. 2020	31.07.2020	03.09.2021	30.08.2021	30.08.2021	08.09.2021	23.08.2021	23.08.2021	02.08. 2021	23.08. 2021	03.08. 2021	03.08. 2021	05.08. 2021	30.07. 2021			
Days after applica- tion DA-A	23 DA-A	22 DA-A	35 DA-A	77 DA-A	68 DA-A	67 DA-A	74 DA-A	81 DA-A	63 DA-A	42 DA-A	62 DA-A	34 DA-A	39 DA-A	51 DA-A	51 DA-A			
Crop stage majority min/max	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 97	BBCH 97	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 89			
																Ave- rage	mi n	ma x

N o.	Product code	Ra- te (L/ ha)																		
1	Untreated Check	-	49.43	41.13	35.21	32.68	37.34	41.08	44.15	38.74	37.26	41.64	41.30	42.55	40.75	44.40	42.49	40.68	32.68	49.43
2	CHR/I/A DEL 280 SC	0.06	48.98	40.45	35.78	31.71	36.43	38.69	42.95	40.16	36.78	42.43	41.40	42.63	42.93	47.25	43.90	40.83	31.71	48.98
3	CHR/I/A DEL 280 SC	0.08	49.03	40.33	36.18	32.57	37.40	41.85	44.87	39.43	37.71	42.93	41.40	42.43	43.15	46.95	43.70	41.33	32.57	49.03
4	CHR/I/A DEL 280 SC	0.08	48.78	40.38	35.33	33.12	33.12	40.66	42.95	39.01	39.14	41.55	41.40	42.50	44.20	48.00	4.90	38.34	4.90	48.78
	Asy- stent+	0.10																		
5	CHR/I/A DEL 280 SC	0.10	50.40	40.30	35.55	33.09	37.07	40.79	43.92	40.09	36.08	41.92	41.40	42.48	43.25	46.70	43.05	41.07	33.09	50.40
6	CHR/I/A DEL 280 SC	0.12	49.78	41.13	35.59	32.15	36.63	38.55	44.67	39.29	35.66	43.11	41.50	42.53	43.05	48.03	44.09	41.05	32.15	49.78
7	CHR/I/A DEL 280 SC	0.14	48.18	40.75	35.32	33.55	35.49	39.85	44.44	39.99	37.97	40.58	41.40	42.55	43.50	47.18	44.71	41.03	33.55	48.18
8	CHR/I/A DEL 280 SC	0.16	49.18	40.85	35.65	33.64	36.12	39.88	43.97	38.56	36.05	42.43	41.60	42.45	43.18	47.30	43.61	40.96	33.64	49.18
9	Decis Mega 50 EW	0.125	-	-	-	30.43	37.24	40.96	45.19	40.07	37.51							38.57	30.43	45.19
10	Fastac Active 50 ME	0.3	-	-	-							42.49	41.40	42.65	43.03	47.90	44.14	43.60	41.40	47.90
LSD(P=.05)			4.048	1.448	1.526	3.151	3.865	3.859	2.415	2.094	2.149	2.929	0.340	0.302	1.564	2.108	2.062			

table 3.4.3.1-9 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter oilseed rape moisture content (%) (in autumn application)

Crop code	winter oilseed rape/moisture (%)
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Report code			A.T/2019/ 085/RZO	A.T/2019/ 086/RZO	4I/20 20	AI/19/RO/2 7/ZI/ADEL	A.T/2020/ 116/RZO	A.T/2020/ 117/RZO	A.T/2020/ 118/RZO	A.T/2020/ 119/RZO	A.T/2020/ 120/RZO	A.T/2020/ 121/RZO	AI/20/R O/36/Pr/ 1	AI/20/R O/36/ZI/ 2	AI/20/R O/36/Br/ 3	4I/20 21	5I/20 21	6I/20 21			
Application date			26.09.2019	07.11.2019	04.10.2019	15.10.2019	09.10.2020	22.10.2020	22.10.2020	23.10.2020	28.10.2020	22.10.2020	17.09.2020	21.09.2020	18.09.2020	24.09.2020	24.09.2020	09.10.2020			
Crop stage in application			BBCH 16	BBCH 21	BBC H 14-15	BBCH 16	BBCH 14-17	BBCH 14-18	BBCH 12-14	BBCH 14-16	BBCH 14-17	BBCH 10-12	BBCH 12-16	BBCH 12-13	BBCH 14-15	BBC H 14-15	BBC H 14-15	BBC H 17-18			
Assessment date			22.07.2020	22.07.2019	06.07.2020	14.07.2020	20.07.2020	31.07.2020	28.07.2020	24.07.2020	27.07.2020	28.07.2020	20.07.2020	19.07.2020	22.07.2020	14.08.2021	14.08.2021	03.09.2021			
Days after application DA-A			300 DA-A	258 DA-A	276 DA-A	273 DA-A	284 DA-A	282 DA-A	279 DA-A	274 DA-A	272 DA-A	279 DA-A	306 DA-A	301 DA-A	307 DA-A	324 DA-A	324 DA-A	329 DA-A			
Crop stage majority			BBCH 89	BBCH 89	BBC H 99	BBCH 97	BBCH 89	BBCH 99	BBCH 89	BBCH 89	BBCH 89	BBCH 89	BBCH 97	BBCH 97	BBCH 97	BBC H 99	BBC H 99	BBC H 99	Ave rage	M in.	M ax.
N o.	Name	Ra te (L/ ha)					I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
1	Untreated Check	-	6.68	7.15	6.45	5.85	9.13	6.90	7.20	8.88	6.30	7.33	8.70	6.88	11.25	9.35	8.05	7.38	7.72	5.85	11.25
2	CHR/I/ADEL 280 SC	0.06	7.03	7.03	6.95	5.95	9.45	6.95	7.10	8.45	6.20	7.18	8.68	6.95	11.93	9.10	8.48	7.63	7.82	5.95	11.93
3	CHR/I/ADEL 280 SC	0.08	7.00	7.05	6.55	5.93	9.40	6.95	7.15	8.45	6.33	7.33	8.68	6.75	11.78	8.85	7.85	7.65	7.73	5.93	11.78
4	CHR/I/ADEL 280 SC	0.08	6.83	6.95	7.08	5.98	9.3	7	7.2	8.85	6.2	7.2	8.68	6.85	11.2	8.58	8.00	7.43	7.71	5.98	11.20
	Asy-stent+	0.10																			
5	CHR/I/ADEL 280 SC	0.10	6.85	7.23	6.55	5.95	9.35	7.00	7.03	8.58	6.23	7.35	8.60	6.98	11.08	9.00	9.00	7.28	7.75	5.95	11.08
6	CHR/I/ADEL 280 SC	0.12	6.73	7.20	6.50	5.98	9.35	6.95	7.15	8.00	6.30	7.28	8.68	6.85	11.48	9.25	7.40	7.40	7.66	5.98	11.48
7	CHR/I/ADEL 280 SC	0.14	6.75	7.13	6.65	5.95	9.23	7.05	7.15	7.80	6.25	7.43	8.63	6.95	10.43	9.03	8.00	7.18	7.60	5.95	10.43
8	CHR/I/ADEL 280 SC	0.16	6.78	7.28	6.63	5.93	9.33	7.00	6.98	8.48	6.25	7.10	8.68	6.83	11.10	8.85	7.73	7.38	7.65	5.93	11.10

9	Los Ova- dos 200 SE	0.2 5	6.60	6.88	6.60	5.98	9.13	7.00	7.00	8.88	6.18	7.18	8.58	6.80	11.58	9.18	7.60	7.65	7.68	5.98	11.58
	Asy- stent+	0.1 0																			
10	Decis Mega 50 EW	0.1 5	6.65	7.05	6.63	5.95	9.50	5.23	7.18	8.08	6.25	7.20	8.58	6.93	11.48	8.83	8.18	7.33	7.57	5.23	11.48
LSD(P=.05)			0.209	0.261	0.455	0.193	-	1.596	0.237	1.039	0.276	0.233	0.167	0.244	0.94	0.77	0.939	0.403			

table 3.4.3.1-10 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter oilseed rape moisture content (%) (in spring application)

Crop code	winter oilseed rape/moisture (%)																													
Report code	A.T/ 2020 /027 /RZ O	A.T/ 2020 /029 /RZ O	A.T/ 2020 /030 /RZ O	A.T/ 2020 /031 /RZ O	A.T/ 2020 /032 /RZ O	A.T/ 2020 /085 /RZ O	AI/20 /RO/ 7/NW /ADE L	A.T/ 2021 /001 /RZ O	A.T/ 2021 /002 /RZ O	A.T/ 2021 /003 /RZ O	A.T/ 2021 /004 /RZ O	A.T/2 021/0 05/RZ O	A.T/ 2021 /006 /RZ O	A.T/ 2021 /007 /RZ O	A.T/ 2021 /008 /RZ O	A.T/ 2021 /009 /RZ O	A.T/ 2021 /010 /RZ O	A.T/ 2021 /064 /RZ O	A.T/ 2021 /065 /RZ O	A.T/ 2021 /066 /RZ O	C H- W- R- I- A D E L- 20 21 - 01	C H- W- R- I- A D E L- 20 21 - 02	C H- W- R- I- A D E L- 20 21 - 03	C H- W- R- I- A D E L- 20 21 - 04	S R P L2 1- 40 1- 33 6F E	S R P L2 1- 40 2- 33 6F E	9I/ 20 21	10 I/2 02 1	11 I/ 20 21	12 I/2 02 1
Applica- tion date	08.0 4.20 20	10.0 4.20 20	22.0 4.20 20	24.0 4.20 20	07.0 5.20 20	22.0 5.20 20	23.03. 2020	26.0 3.20 21	30.0 3.20 21	30.0 3.20 21	30.03. 2021	19.0 4.20 21	17.0 4.20 21	31.0 3.20 21	12.0 4.20 21	10.0 5.20 21	30.0 4.20 21	19.0 5.20 21	12.0 5.20 21	24.0 5.20 21	24.0 4.20 21	44.0 3.10 0	13.0 5.20 21	12.0 5.20 21	11.0 5.20 21	12.0 5.20 21	20.0 4.20 21	20.0 4.20 21	14.0 5.20 21	14.0 5.20 21
Crop stage in applica- tion	BBC H 50- 55	BBC H 50- 55	BBC H 55- 59	BBC H 60- 65	BBC H 65- 67	BBC H 67- 69	BBC H 30- 34	BBC H 32- 35	BBC H 32- 35	BBC H 33- 37	BBCH 30-35	BB CH 35- 39	BBC H 39- 50	BB HC 30- 35	BBC H 35- 39	BBC H 51- 55	BBC H 55- 59	BBC H 63- 67	BBC H 65- 67	BBC H 65- 69	B B C H 55	B B C H 55	B B C H 65	B B C H 65	B B C H 51	B B C H 57	B B C H 39	B B C H 39	B B C H 65	B B C H 65
Assess- ment date	23.0 7.20 20	24.0 7.20 20	30.0 7.20 20	24.0 7.20 20	28.0 7.20 20	28.0 7.20 20	25.07. 2020	21.0 7.20 21	30.0 7.20 21	03.0 8.20 21	24.07. 2021	20.0 7.20 21	21.0 7.20 21	29.0 7.20 21	24.0 7.20 21	29.0 7.20 21	20.0 7.20 21	29.0 7.20 21	24.0 7.20 21	22.0 7.20 21	20.0 7.20 21	20.0 7.20 21	20.0 7.20 21	20.0 7.20 21	29.0 7.20 21	23.0 8.20 21	3.0 0.07 22	2.0 8.20 22	26.0 7.20 20	3.0 0.07 22



Product code: CHR/I/ADEL 280 SC

Product name: ADEL 280 SC/ PYRIFOS ADE 280 SC

Part B – Section 3 - CORE ASSESSMENT

Applicant version

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Template for chemical PPP

Version July 2024

																						21	21	21	21	21	21	02	02	21	02				
Days after applica- tion DA-A			106 DA-A	105 DA-A	99 DA-A	91 DA-A	82 DA-A	67 DA-A	124 DA-A	117 DA-A	122 DA-A	126 DA-A	116 DA-A	92 DA-A	95 DA-A	120 DA-A	103 DA-A	80 DA-A	81 DA-A	71 DA-A	73 DA-A	59 DA-A	87 D A-A	87 D A-A	68 D A-A	67 D A-A	79 D A-A	10 3 D A-A	1 01 D A-A	99 D A-A	73 D A-A	7 7 D A-A			
Crop stage majority			BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 99	BBC H 97	BBC H 89	BBC H 99	BBC H 89	BBCH 99	BB CH 89	BBC H 89	BBC H 89	BBC H 89	BBC H 99	BBC H 89	BBC H 89	BBC H 89	BBC H 89	B B C H 89	B B C H 89	B B C H 89	B B C H 89	B B C H 99	B B C H 99	B B C H 99	B B C H 99	B B C H 99	B B C H 99	Av era ge	M in.	M ax.
No.	Name	Rate (L/h a)																																	
1	Un treat ed Check	-	7.05	6.20	7.95	7.78	8.30	7.78	8.03	7.05	5.88	8.18	6.30	6.05	6.90	6.73	6.60	7.20	6.08	7.40	6.38	7.60	5.54	7.30	5.40	7.30	8.50	7.10	7.38	8.98	9.28	9.23	7.25	5.40	9.28
2	CH R/I /A DEL 28 0 SC	0 · 0 6	7.00	6.25	8.00	7.85	8.28	7.80	8.00	7.05	5.75	8.20	6.30	6.00	6.78	6.90	6.70	7.20	6.08	7.45	6.30	7.55	5.74	7.50	5.40	7.50	8.60	7.20	7.63	8.63	9.15	9.45	7.27	5.40	9.45
3	CH R/I /A DEL 28 0 SC	0 · 0 8	7.05	6.48	7.85	7.83	8.33	7.98	8.03	6.93	5.80	8.20	6.38	6.05	6.70	6.73	6.40	7.20	6.03	7.38	6.43	7.60	5.60	7.30	5.50	7.20	8.55	7.00	7.03	9.13	8.98	9.95	7.25	5.50	9.95
4	CH R/I /A	0 · 0	7.00	6.38	7.98	7.75	8.20	7.83	8.08	7.05	5.73	8.15	6.35	6.18	6.75	6.85	6.53	7.30	6.15	7.33	6.43	7.85	5.72	7.30	5.30	7.60	8.73	7.00	7.55	8.65	8.58	9.60	7.26	5.30	9.60



[illegible]

Table 3.4.3.1-11 The influence of the CHR/I/ADEL 280 SC on quality of yield
Winter wheat moisture content (%)

Crop code	winter wheat/grain moisture (%)									
Report code	SRPL20 -413- 336FE	SRPL20 -414- 336FE	SRPL20 -416- 336FE	SRPL20 -417- 336FE	A.T/2021/088/ PO	A.T/2021/089/ PO	A.T/2021/090/ PO	A.T/2021/091/ PO	SRPL21 -450- 336FE	SRPL21 -451- 336FE
Application date	30.06.20 20	04.07.20 20	30.06.20 20	30.06.20 20	23.06.2021	24.06.2021	28.06.2021	26.06.2021	30.06.20 21	30.06.20 21
Crop stage in applica- tion	BBCH 71-75	BBCH 75-76	BBCH 75	BBCH 75	BBCH 73-75	BBCH 65-71	BBCH 69-73	BBCH 67-69	BBCH 73-75	BBCH 68-71
Assessment date	31.07.20 20	13.08.20 20	31.07.20 20	02.08.20 20	24.07.2021	27.07.2021	03.08.2021	28.07.2021	29.07.20 21	10.08.20 21
Days after application	31 DA-A	40 DA-A	31 DA-A	33 DA-A	31 DA-A	33 DA-A	36 DA-A	32 DA-A	29 DA-A	41 DA-A

DA-A															
Crop stage majority			BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 89	Ave- rage	Min	Max
N o.	Product code	Rate (L/h a)													
1	Untreated Check	-	13.20	11.63	12.28	13.68	12.45	12.20	13.90	12.43	11.00	14.53	12.73	11.00	14.53
2	CHR/I/AD EL 280 SC	0.06	13.25	11.40	12.28	13.55	12.33	12.33	13.95	12.65	11.00	15.03	12.78	11.00	15.03
3	CHR/I/AD EL 280 SC	0.08	13.28	11.55	12.33	13.75	12.55	12.30	13.88	12.50	11.10	14.90	12.81	11.10	14.90
4	CHR/I/AD EL 280 SC	0.08	13.18	11.40	12.35	13.60	12.20	12.28	13.98	12.40	11.00	14.43	12.68	11.00	14.43
	Asystent+	0.10													
5	CHR/I/AD EL 280 SC	0.10	13.23	11.28	12.33	13.65	12.23	12.13	13.88	12.70	11.40	14.50	12.73	11.28	14.50
6	CHR/I/AD EL 280 SC	0.12	13.20	11.38	12.28	13.68	12.30	12.15	13.85	12.38	11.20	14.08	12.65	11.20	14.08
7	CHR/I/AD EL 280 SC	0.14	13.28	11.23	12.35	13.58	12.45	12.25	13.98	12.33	11.10	14.83	12.74	11.10	14.83
8	CHR/I/AD EL 280 SC	0.16	13.18	11.53	12.23	13.80	12.43	12.10	13.85	12.58	11.00	14.70	12.74	11.00	14.70
9	Decis Me- ga 50 EW	0.125	13.23	11.38	-	-	12.53	12.18	13.90	12.58	11.30	14.75	12.73	11.30	14.75
10	Fastac Active 50 ME	0.30	13.20	11.45	12.20	13.60	12.40	12.40	13.88	12.40	11.20	14.65	12.74	11.20	14.65
LSD(P=.05)			0.117	-	0.286	0.456	0.359	0.606	0.171	0.379	0.840	0.474			

table 3.4.3.1-12 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter triticale moisture content (%)

Crop code	winter triticale/grain moisture (%)														
Report code	SRPL 20-415-336FE	SRPL 20-418-336FE	AI/20/ PszO/ 24/Gr/ 02	A.T/20 21/092 /PZO	A.T/20 21/093 /PZO	A.T/20 21/094 /PZO	A.T/20 21/095 /PZO	AI/21/ PszO/ 20/Pr/ 1	AI/21/ PszO/ 20/Ra/ 2	SRPL 21-452-336FE	SRPL 21-453-336FE	SRPL 21-454-336FE	SRPL 21-455-336FE	SRPL 21-456-336FE	SRPL 21-457-336FE

Application date	06.07.2020	06.07.2020	26.06.2020	18.06.2021	23.06.2021	24.06.2021	26.06.2021	03.06.2021	21.06.2021	21.06.2021	09.06.2021	30.06.2021	25.06.2021	15.06.2021	09.06.2021			
Crop stage in application	BBCH 73-77	BBCH 75	BBCH 73-75	BBCH 73-77	BBCH 69-73	BBCH 69-73	BBCH 65-69	BBCH 49	BBCH 63	BBCH 65-69	BBCH 51-55	BBCH 71-73	BBCH 73-75	BBCH 71-73	BBCH 61-65			
Assessment date	29.07.2020	27.07.2020	29.07.2020	23.07.2021	05.08.2021	44404.00	13.08.2021	30.07.2021	28.07.2021	02.08.2021	23.08.2021	03.08.2021	03.08.2021	05.08.2021	30.07.2021			
Days after application DA-A	23 DA-A	21 DA-A	33 DA-A	35 DA-A	43 DA-A	33 DA-A	48 DA-A	57 DA-A	37 DA-A	42 DA-A	62 DA-A	34 DA-A	39 DA-A	51 DA-A	51 DA-A			
Crop stage majority min/max	BBCH 89	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 97	BBCH 97	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 89	Average	min	max
No.	Product code	Rate (L/ha)																
1	Untreated Check	-	11.13	11.28	12.20	13.10	13.35	13.00	13.18	12.20	11.30	13.43	12.70	13.40	13.50	12.75	13.78	12.69 11.13 13.78
2	CHR/I/ADEL 280 SC	0.06	11.23	11.28	12.20	13.03	13.23	12.73	13.25	12.20	11.30	13.30	12.90	13.43	13.38	12.58	13.85	12.66 11.23 13.85
3	CHR/I/ADEL 280 SC	0.08	11.20	11.43	12.20	13.30	13.45	12.78	13.25	12.20	11.00	13.35	12.60	13.40	13.55	13.83	13.78	12.75 11.00 13.83
4	CHR/I/ADEL 280 SC	0.08	11.23	11.38	12.20	13.30	12.93	12.65	13.33	12.10	10.70	13.48	12.70	13.35	13.40	12.65	13.83	12.62 10.70 13.83
	Asystent+	0.10																
5	CHR/I/ADEL 280 SC	0.10	11.23	11.23	12.20	13.23	13.45	12.88	13.30	12.20	10.80	13.48	12.80	13.45	13.58	12.88	13.73	12.70 10.80 13.73
6	CHR/I/ADEL 280 SC	0.12	11.13	11.33	12.10	13.40	13.45	12.73	13.35	12.20	10.80	13.60	12.60	13.40	13.78	12.65	13.73	12.68 10.80 13.78
7	CHR/I/ADEL 280 SC	0.14	11.25	11.33	12.20	13.35	13.30	13.10	13.40	12.20	11.20	13.35	12.80	13.38	13.53	12.68	13.45	12.70 11.20 13.53
8	CHR/I/ADEL 280 SC	0.16	11.10	11.33	12.20	13.35	13.28	12.63	13.43	12.20	10.90	13.40	12.70	13.38	13.63	12.90	13.83	12.68 10.90 13.83
9	Decis Mega 50 EW	0.125	-	-	-	13.08	13.35	12.88	13.33	12.20	11.20	-	-	-	-	-	-	12.67 11.20 13.35
10	Fastac Active 50 ME	0.3	-	-	-	-	-	-	-	-	-	13.33	12.70	13.40	13.55	12.70	13.78	13.24 12.70 13.78
LSD(P=.05)			0.304	0.713	0.170	0.431	0.394	0.322	0.187	0.080	0.570	0.33	0.24	0.11	0.41	0.56	0.20	

table 3.4.3.1-13 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter oilseed rape oil content (%) (in autumn application)

Crop code	winter oilseed rape/oil cont. (%)															
Report code	A.T/20 19/085/ RZO	A.T/20 19/086/ RZO	4I/2020	AI/19/ RO/27/ ZI/ADE L	A.T/20 20/116/ RZO	A.T/20 20/117/ RZO	A.T/20 20/118/ RZO	A.T/20 20/119/ RZO	A.T/20 20/120/ RZO	A.T/20 20/121/ RZO	AI/20/ RO/36/ Pr/1	AI/20/ RO/36/ ZI/2	AI/20/ RO/36/ Br/3	4I/2021	5I/2021	6I/2021
Application date	26.09.2019	07.11.2019	04.10.2019	15.10.2019	09.10.2020	22.10.2020	22.10.2020	23.10.2020	28.10.2020	22.10.2020	17.09.2020	21.09.2020	18.09.2020	24.09.2020	24.09.2020	09.10.2020

Crop stage in application			BBCH 16	BBCH 21	BBCH 14-15	BBCH 16	BBCH 14-17	BBCH 14-18	BBCH 12-14	BBCH 14-16	BBCH 14-17	BBCH 10-12	BBCH 12-16	BBCH 12-13	BBCH 14-15	BBCH 14-15	BBCH 14-15	BBCH 17-18			
Assessment date			22.07.2 020	22.07.2 019	07.08.2 020	22.09.2 020	09.08.2 021	07.09.2 021	24.08.2 021	04.08.2 021	23.08.2 021	24.08.2 021	26.08.2 021	26.08.2 021	26.08.2 021	19.08.2 021	24.08.2 021	03.09.2 021			
Days after application DA- A			300 DA-A	258 DA-A	308 DA-A	343 DA-A	304 DA-A	320 DA-A	306 DA-A	285 DA-A	299 DA-A	306 DA-A	343 DA-A	339 DA-A	342 DA-A	329 DA-A	334 DA-A	329 DA-A			
Crop stage majority			BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	Average	Min.	Max.
N o.	Name	Rate (L/ha)																			
1	Untreated Check	-	46.05	46.15	41.87	37.90	39.63	45.05	43.55	42.85	45.63	43.70	43.60	41.80	35.70	47.71	47.36	47.79	43.52	35.70	47.79
2	CHR/I/ADEL 280 SC	0.06	45.63	46.30	42.79	38.00	40.30	44.45	43.90	43.13	45.85	43.60	43.80	41.90	39.70	47.93	47.23	47.82	43.90	38.00	47.93
3	CHR/I/ADEL 280 SC	0.08	45.85	46.45	42.35	37.10	39.78	45.15	43.45	42.80	45.35	43.90	44.40	40.90	37.40	47.89	47.56	48.01	43.65	37.10	48.01
4	CHR/I/ADEL 280 SC	0.08	45.38	46.50	42.97	38.50	39.70	44.55	43.63	42.78	45.48	43.73	44.20	41.50	39.00	47.95	47.31	47.81	43.81	38.50	47.95
	Asystent+	0.10																			
5	CHR/I/ADEL 280 SC	0.10	46.48	46.53	42.90	38.10	39.65	44.35	44.50	42.95	45.38	43.73	44.20	42.50	36.70	47.94	47.72	48.39	43.88	36.70	48.39
6	CHR/I/ADEL 280 SC	0.12	46.03	46.33	42.47	38.10	39.65	44.53	43.88	43.08	45.53	43.40	44.00	41.90	39.70	47.81	47.43	48.11	43.87	38.10	48.11
7	CHR/I/ADEL 280 SC	0.14	46.55	45.90	42.17	37.20	39.58	44.58	43.80	42.98	46.00	43.48	44.40	42.10	35.70	47.91	47.56	47.43	43.58	35.70	47.91
8	CHR/I/ADEL 280 SC	0.16	46.35	46.33	42.77	37.60	39.68	44.85	44.05	43.08	45.43	44.28	44.20	41.60	38.70	47.86	47.62	47.46	43.87	37.60	47.86
9	Los Ovados 200 SE	0.25	46.28	46.75	42.76	37.80	40.55	44.53	43.30	42.95	45.08	43.50	44.40	40.70	39.20	47.88	47.44	47.66	43.80	37.80	47.88
	Asystent+	0.10																			
10	Decis Mega 50 EW	0.15	45.58	46.20	42.61	37.60	39.43	44.48	43.70	43.08	45.73	43.73	43.70	41.00	36.70	48.25	47.70	47.52	43.56	36.70	48.25
LSD(P=.05)			0.942	0.798	0.952	-	1.393	0.606	0.826	0.800	0.647	0.745	-	-	-	0.5393	0.6751	0.5535			

table 3.4.3.1-14 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter oilseed rape oil content (%) (in spring application)

Crop code		winter oilseed rape/oil cont. (%)																												
Report code	A.T	A.T	A.T	A.T	A.T	A.T	AI/	A.T	A.T	A.T	A.T	A.T	A.T	A.T	A.T	A.T	A.T	A.T	A.T	CH	CH	CH	CH	SR	SR					
	/20	/20	/20	/20	/20	/20	20/	/20	/20	/20	/20	/20	/20	/20	/20	/20	/20	/20	/20	-	-	-	-	PL	PL					
	20/	20/	20/	20/	20/	20/	RO	21/	21/	21/	21/	21/	21/	21/	21/	21/	21/	21/	21/	W	W	W	W	21-	21-					
	027	029	030	031	032	085	/7/	001	002	003	004	005	006	007	008	009	010	064	065	066	R-	R-	R-	R-	401	402				
	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	N	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	/RZ	I-	I-	I-	I-	-	-					
	O	O	O	O	O	O	W/	O	O	O	O	O	O	O	O	O	O	O	O	O	AD	AD	AD	AD	336	336				

								AD EL													EL- 202 1- 01	EL- 202 1- 02	EL- 202 1- 03	EL- 202 1- 04	FE	FE										
Application date			08. 04. 202 0	10. 04. 202 0	22. 04. 202 0	24. 04. 202 0	07. 05. 202 0	22. 05. 202 0	23. 03. 202 0	26. 03. 202 1	30. 03. 202 1	30. 03. 202 1	30. 03. 202 1	19. 04. 202 1	17. 04. 202 1	31. 03. 202 1	12. 04. 202 1	10. 05. 202 1	30. 04. 202 1	19. 05. 202 1	12. 05. 202 1	24. 05. 202 1	24. 04. 202 1	24. 04. 202 1	13. 05. 202 1	12. 05. 202 1	11. 05. 202 1	12. 05. 202 1	20. 04. 202 1	20. 04. 202 1	14. 05. 202 1	14. 05. 202 1				
Crop stage in application			BB CH 50- 55	BB CH 50- 55	BB CH 55- 59	BB CH 60- 65	BB CH 65- 67	BB CH 67- 69	BB CH 30- 34	BB CH 32- 35	BB CH 32- 35	BB CH 33- 37	BB CH 30- 35	BB CH 35- 39	BB CH 39- 50	BB HC 30- 35	BB CH 35- 39	BB CH 51- 55	BB CH 55- 59	BB CH 63- 67	BB CH 65- 67	BB CH 65- 69	BB CH 55	BB CH 55	BB CH 65	BB CH 65- 67	BB CH 51- 53	BB CH 57- 59	BB CH 39	BB CH 39	BB CH 65- 67	BB CH 65- 67				
Assessment date			03. 08. 202 0	05. 08. 202 0	21. 09. 202 0	14. 08. 202 0	26. 08. 202 0	18. 08. 202 0	22. 09. 202 0	10. 08. 202 1	12. 08. 202 1	06. 09. 202 1	18. 08. 202 1	16. 08. 202 1	24. 08. 202 1	19. 08. 202 1	27. 08. 202 1	26. 08. 202 1	18. 08. 202 1	18. 08. 202 1	20. 08. 202 1	20. 08. 202 1	20. 07. 202 1	20. 07. 202 1	20. 07. 202 1	20. 07. 202 1	24. 09. 202 1	26. 08. 202 1	09. 08. 202 1	11. 08. 202 1	16. 08. 202 1	16. 08. 202 1				
Days after appli- cation DA-A			117 DA -A	117 DA -A	152 DA -A	112 DA -A	111 DA -A	88 DA -A	183 DA -A	137 DA -A	135 DA -A	160 DA -A	141 DA -A	119 DA -A	129 DA -A	141 DA -A	137 DA -A	108 DA -A	110 DA -A	91 DA -A	100 DA -A	88 DA -A	87 DA -A	87 DA -A	68 DA -A	67 DA -A	79 DA -A	106 DA -A	111 DA -A	113 DA -A	94 DA -A	94 DA -A				
Crop stage majority			BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 89	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 89	BB CH 89	BB CH 89	BB CH 89	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	BB CH 99	Av era ge	Mi n.	M ax .	
N o .	Name	Ra- te (L/h a)																																		
1	Untrea- ted Check	-	41. 40	46. 18	46. 55	47. 00	43. 18	45. 35	39. 10	39. 85	44. 55	40. 85	45. 93	42. 55	41. 45	42. 20	41. 93	42. 18	42. 35	41. 53	41. 30	43. 48	46. 22	48. 10	44. 70	46. 80	40. 88	40. 10	47. 30	47. 67	49. 26	47. 77	43. 92	39. 10	49. 26	
2	CHR/I/ ADEL 280 SC	0.06	41. 10	46. 38	46. 70	46. 65	42. 90	45. 08	38. 60	40. 03	44. 98	40. 33	45. 83	42. 88	41. 40	43. 93	41. 73	42. 23	42. 78	41. 75	40. 25	43. 58	45. 27	48. 00	46. 80	49. 10	40. 60	40. 00	47. 17	48. 07	49. 67	47. 72	44. 05	38. 60	49. 67	
3	CHR/I/ ADEL 280 SC	0.08	41. 25	46. 80	46. 40	46. 60	43. 20	44. 50	39. 10	39. 88	44. 25	40. 18	45. 20	43. 03	41. 75	41. 90	42. 03	42. 45	41. 78	41. 33	41. 25	43. 48	46. 37	49. 20	46. 80	49. 20	40. 80	40. 30	47. 35	47. 64	50. 07	47. 99	44. 07	39. 10	50. 07	
4	CHR/I/ ADEL 280 SC	0.08	41. 08	46. 08	46. 33	46. 30	43. 75	44. 48	40. 00	40. 85	44. 83	40. 85	45. 10	42. 55	41. 73	42. 43	41. 58	41. 90	42. 33	41. 53	41. 43	43. 68	45. 95	48. 90	46. 50	49. 20	40. 30	40. 20	47. 30	47. 90	49. 60	48. 00	44. 09	40. 00	49. 60	
	Asy- stent+	0.10																																		
5	CHR/I/ ADEL 280 SC	0.10	41. 58	46. 00	46. 05	46. 00	43. 55	44. 75	39. 80	40. 28	44. 95	40. 28	45. 60	42. 78	41. 40	41. 95	41. 90	42. 38	42. 33	42. 45	40. 20	43. 60	46. 37	49. 80	46. 60	48. 30	40. 50	40. 60	47. 88	47. 49	49. 26	48. 55	44. 11	39. 80	49. 80	
6	CHR/I/ ADEL 280 SC	0.12	41. 15	46. 20	46. 70	46. 25	43. 78	44. 98	39. 90	40. 00	44. 73	40. 75	45. 25	43. 48	41. 13	43. 03	41. 95	42. 43	42. 08	41. 63	40. 85	43. 28	45. 32	49. 50	47. 50	47. 80	40. 18	40. 20	47. 63	47. 93	49. 29	47. 81	44. 09	39. 90	49. 50	

7	CHR/I/ADEL 280 SC	0.14	41.40	46.23	46.28	46.45	44.05	43.80	39.40	39.63	44.35	40.63	44.90	43.30	41.33	41.93	41.70	42.15	41.90	41.75	41.65	43.60	47.12	48.60	45.50	49.40	40.38	40.10	48.04	47.77	49.82	48.14	44.04	39.40	49.82
8	CHR/I/ADEL 280 SC	0.16	41.20	46.85	46.68	46.73	43.35	45.35	39.70	39.35	44.25	40.53	45.53	43.05	41.32	42.98	41.50	42.45	42.33	42.05	40.55	43.70	46.00	47.40	45.70	46.70	40.40	40.70	48.17	47.82	49.62	47.76	43.99	39.35	49.62
9	Los Ovados 200 SE	0.25	-	45.70	46.48	46.23	43.23	45.05	-	-	-	-	-	-	-	-	-	42.08	41.83	41.70	41.00	43.75	47.32	48.30	47.40	49.20	40.25	40.30	-	-	49.54	47.61	44.83	40.25	49.54
	Asy-stent+	0.10																																	
10	Decis Mega 50 EW	0.15	41.35	46.13	46.30	46.53	43.33	44.95	39.20	39.83	44.58	40.63	45.00	43.23	41.35	42.25	41.48	42.43	41.88	41.65	41.20	43.60	47.45	46.90	47.30	49.90	40.35	40.30	47.55	47.90	49.72	48.08	43.94	39.20	49.90
11	Inazuma 130 WG	0.20	41.48	46.30	45.90	46.65	43.60	44.85	38.50	40.25	44.48	40.65	45.30	42.73	41.53	42.45	42.10	41.85	41.55	41.70	40.73	43.20	46.72	49.60	46.70	48.50	40.58	40.20	47.21	47.54	49.74	48.14	44.02	38.50	49.74
LSD(P=.05)			0.782	0.825	0.735	1.147	1.308	1.561	-	1.349	0.695	0.577	0.603	0.906	1.092	1.026	0.724	0.827	0.727	1.35	1.123	0.604	3.513-3.519	2.83-2.83	3.01-3.02	2.48-2.48	1.382	0.400	1.094	0.847	0.654	0.891			

table 3.4.3.1-15 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter wheat protein content (%)

Crop code			winter wheat/protein content (%)												
Report code			SRPL20-413-336FE	SRPL20-414-336FE	SRPL20-416-336FE	SRPL20-417-336FE	A.T/2021/088/PO	A.T/2021/089/PO	A.T/2021/090/PO	A.T/2021/091/PO	SRPL21-450-336FE	SRPL21-451-336FE			
Application date			30.06.2020	04.07.2020	30.06.2020	30.06.2020	23.06.2021	24.06.2021	28.06.2021	26.06.2021	30.06.2021	30.06.2021			
Crop stage in application			BBCH 71-75	BBCH 75-76	BBCH 75	BBCH 75	BBCH 73-75	BBCH 65-71	BBCH 69-73	BBCH 67-69	BBCH 73-75	BBCH 68-71			
Assessment date			18.09.2020	16.09.2020	17.08.2020	10.08.2020	31.08.2021	31.08.2021	06.09.2021	01.09.2021	23.09.2021	10.08.2021			
Days after application DA-A			80 DA-A	74 DA-A	48 DA-A	41 DA-A	69 DA-A	68 DA-A	70 DA-A	67 DA-A	85 DA-A	41 DA-A			
Crop stage majority			BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	Average	Min.	Max.
No.	Product code	Rate (L/ha)													
1	Untreated Check	-	12.40	11.85	14.10	13.48	14.30	13.65	12.50	13.80	13.90	12.23	13.22	11.85	14.30



table 3.4.3.1-16 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter triticale protein content (%)

			winter triticale/protein content (%)																	
Crop code																				
Report code			SRPL20 -415- 336FE	SRPL20 -418- 336FE	AI/20/Ps zO/24/G r/02	A.T/202 1/092/P ŽO	A.T/202 1/093/P ŽO	A.T/202 1/094/P ŽO	A.T/202 1/095/P ŽO	AI/21/Ps zO/20/R r/1	AI/21/Ps zO/20/R a/2	SRPL21 -452- 336FE	SRPL21 -453- 336FE	SRPL21 -454- 336FE	SRPL21 -455- 336FE	SRPL21 -456- 336FE	SRPL21 -457- 336FE			
Application date			06.07.20 20	06.07.20 20	26.06.20 20	18.06.20 21	23.06.20 21	24.06.20 21	26.06.20 21	03.06.20 21	21.06.20 21	21.06.20 21	09.06.20 21	30.06.20 21	25.06.20 21	15.06.20 21	09.06.20 21			
Crop stage in applica- tion			BBCH 73-77	BBCH 75	BBCH 73-75	BBCH 73-77	BBCH 69-73	BBCH 69-73	BBCH 65-69	BBCH 49	BBCH 63	BBCH 65-69	BBCH 51-55	BBCH 71-73	BBCH 73-75	BBCH 71-73	BBCH 61-65			
Assessment date			31.08.20 20	06.08.20 20	05.08.20 20	03.09.20 21	30.08.20 21	30.08.20 21	08.09.20 21	23.08.20 21	23.08.20 21	02.08.20 21	23.08.20 21	03.08.20 21	02.09.20 21	05.08.20 21	30.07.20 21			
Days after application DA-A			56 DA-A	31 DA-A	40 DA-A	77 DA-A	68 DA-A	67 DA-A	74 DA-A	81 DA-A	63 DA-A	42 DA-A	62 DA-A	34 DA-A	69 DA-A	51 DA-A	51 DA-A			
Crop stage majority min/max			BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 89	BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 89	Ave- rage	min	max
N o.	Product code	Ra- te (L/h a)																		

1	Untreated Check	-	15.60	13.50	12.70	11.18	10.70	12.43	12.15	11.20	12.80	12.05	13.30	13.30	10.38	10.93	11.73	12.26	10.38	15.60
2	CHR/I/ADE L 280 SC	0.06	15.05	13.38	13.00	11.58	11.38	12.38	11.58	11.30	12.40	11.70	13.20	13.30	10.30	10.88	11.63	12.20	10.30	15.05
3	CHR/I/ADE L 280 SC	0.08	15.18	13.48	12.60	10.63	10.60	12.15	11.58	10.40	12.90	12.08	13.30	13.20	10.43	10.90	11.98	12.09	10.40	15.18
4	CHR/I/ADE L 280 SC	0.08	14.45	13.53	13.00	10.68	11.95	12.25	11.65	10.70	12.60	12.00	13.30	13.30	10.40	10.95	11.93	12.18	10.40	14.45
	Asyistent+	0.10																		
5	CHR/I/ADE L 280 SC	0.10	14.63	13.58	13.00	10.95	10.48	12.00	11.93	10.60	13.00	11.78	13.20	13.40	10.43	10.90	11.80	12.11	10.43	14.63
6	CHR/I/ADE L 280 SC	0.12	14.48	13.28	12.70	11.03	11.15	12.15	12.03	11.00	12.60	12.18	13.40	13.30	10.43	10.85	11.95	12.17	10.43	14.48
7	CHR/I/ADE L 280 SC	0.14	15.80	13.45	13.10	10.38	11.03	12.35	11.73	10.80	12.80	12.10	13.30	13.40	10.50	10.88	12.25	12.26	10.38	15.80
8	CHR/I/ADE L 280 SC	0.16	15.95	13.30	13.00	10.78	11.13	12.35	11.38	10.80	13.00	12.15	13.30	13.20	10.35	11.00	12.00	12.25	10.35	15.95
9	Decis Mega 50 EW	0.125	-	-	-	12.18	10.70	11.78	11.65	11.10	12.50	█	█	█	█	█	█	11.65	10.70	12.50
10	Fastac Active 50 ME	0.3	-	-	-	█	█	█	█	█	█	11.88	13.50	13.30	10.43	10.90	12.08	12.02	10.43	13.50
LSD(P=.05)			2.058	0.892	-	1.244	1.291	1.027	0.671	█	█	0.796	0.210	0.290	0.328	0.208	0.351			

table 3.4.3.1-17 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter wheat gluten content (%)

Crop code			winter wheat/gluten content (%)										
Report code			SRPL20-413-336FE	SRPL20-414-336FE	SRPL20-416-336FE	SRPL20-417-336FE	A.T/2021/088/PO	A.T/2021/089/PO	A.T/2021/090/PO	A.T/2021/091/PO			
Application date			30.06.2020	04.07.2020	30.06.2020	30.06.2020	23.06.2021	24.06.2021	28.06.2021	26.06.2021			
Crop stage in application			BBCH 71-75	BBCH 75-76	BBCH 75	BBCH 75	BBCH 73-75	BBCH 65-71	BBCH 69-73	BBCH 67-69			
Assessment date			18.09.2020	16.09.2020	17.08.2020	10.08.2020	31.08.2021	31.08.2021	06.09.2021	01.09.2021			
Days after application DA-A			80 DA-A	74 DA-A	48 DA-A	41 DA-A	69 DA-A	68 DA-A	70 DA-A	67 DA-A			
Crop stage majority			BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	Average	Min.	Max.
No.	Product code	Rate (L/ha)					█	█	█	█	█	█	█
1	Untreated Check	-	26.75	33.60	32.30	27.08	29.23	27.68	24.40	29.03	28.76	24.40	33.60

2	CHR/I/ADEL 280 SC	0.06	27.03	33.28	32.88	27.13	32.88	23.78	25.00	28.25	28.78	23.78	33.28
3	CHR/I/ADEL 280 SC	0.08	27.08	33.95	33.25	27.03	32.80	23.80	26.08	27.43	28.93	23.80	33.95
4	CHR/I/ADEL 280 SC	0.08	26.85	33.05	33.03	27.28	30.63	25.40	25.15	28.65	28.76	25.15	33.05
	Asystent+	0.10											
5	CHR/I/ADEL 280 SC	0.10	26.90	34.73	33.15	26.90	30.20	26.88	24.73	27.93	28.93	24.73	34.73
6	CHR/I/ADEL 280 SC	0.12	26.90	32.88	33.05	27.43	30.53	25.53	25.25	28.08	28.71	25.25	33.05
7	CHR/I/ADEL 280 SC	0.14	26.98	33.35	33.23	27.20	31.00	27.05	23.53	28.78	28.89	23.53	33.35
8	CHR/I/ADEL 280 SC	0.16	26.88	34.25	33.30	26.78	31.05	28.20	25.95	28.05	29.31	25.95	34.25
9	Decis Mega 50 EW	0.125	26.98	32.63	-	-	32.28	25.43	23.55	29.73	28.43	23.55	32.63
10	Fastac Active 50 ME	0.30	26.93	34.25	33.13	27.05	31.43	25.10	25.88	28.18	28.99	25.10	34.25
LSD(P=.05)			0.264	2.431	0.932	1.239	3.462	7.092	2.628	1.943			

table 3.4.3.1-18 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Winter triticale gluten content (%)

Crop code			winter triticale/gluten content (%)							
Report code			SRPL20-415-336FE	SRPL20-418-336FE	AI/20/PszO/24/Gr/02	AI/21/PszO/20/Pr/1	AI/21/PszO/20/Ra/2			
Application date			06.07.2020	06.07.2020	26.06.2020	03.06.2021	21.06.2021			
Crop stage in application			BBCH 73-77	BBCH 75	BBCH 73-75	BBCH 49	BBCH 63			
Assessment date			31.08.2020	06.08.2020	05.08.2020	23.08.2021	23.08.2021			
Days after application DA-A			56 DA-A	31 DA-A	40 DA-A	81 DA-A	63 DA-A			
Crop stage majority min/max			BBCH 89	BBCH 99	BBCH 99	BBCH 99	BBCH 99	Average	min	max
No.	Product code	Rate (L/ha)								
1	Untreated Check	-	33.14	26.55	25.50	25.20	25.20	27.12	25.20	33.14
2	CHR/I/ADEL 280 SC	0.06	31.50	26.73	26.00	25.60	25.60	27.09	25.60	31.50
3	CHR/I/ADEL 280 SC	0.08	32.05	28.55	24.10	25.10	25.20	27.00	24.10	32.05
4	CHR/I/ADEL 280 SC	0.08	30.16	28.33	24.10	25.30	25.40	26.66	24.10	30.16
	Asystent+	0.10								
5	CHR/I/ADEL 280 SC	0.10	30.40	27.38	23.50	25.30	25.30	26.38	23.50	30.40

6	CHR/I/ADEL 280 SC	0.12	30.63	27.65	25.20	25.30	25.50	26.86	25.20	30.63
7	CHR/I/ADEL 280 SC	0.14	33.58	27.30	26.00	25.10	25.70	27.54	25.10	33.58
8	CHR/I/ADEL 280 SC	0.16	34.10	27.90	25.40	25.20	25.30	27.58	25.20	34.10
9	Decis Mega 50 EW	0.125	-	-	-	25.50	25.60	25.55	25.50	25.60
10	Fastac Active 50 ME	0..3	-	-	-	↓	↓	↓	↓	↓
LSD(P=.05)			5.354	4.614	-	↓	↓			

table 3.4.3.1-19 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Sugar beet sugar content (%)

Crop code			sugar beet/sugar content (%)															
Report code			SRP L20- 419- 336F E	SRP L20- 420- 336F E	SRP L20- 421- 336F E	AI/20/Bc/ 24/Lu/01	A.T/2021 /081/BC	A.T/2021 /082/BC	A.T/2021 /083/BC	A.T/2021 /084/BC	A.T/2021 /085/BC	A.T/2021 /086/BC	A.T/2021 /087/BC	AI/21/BC /18/Br/1	AI/21/BC /18/La/2	AI/21/BC/ 18/Mr/3	AI/21/BC/ 18/Ko/4	AI/21/B C/18/ZI
Application date			22.05. 2020	29.05. 2020	02.06. 2020	18.05.202 0	30.05.202 1	14.06.202 1	26.05.202 1	10.06.202 1	15.06.202 1	04.06.202 1	31.05.202 1	20.05.202 1	24.05.202 1	31.05.202 1	31.05.202 1	25.05.20 21
Crop stage in application			BBC H 12- 13	BBC H13- 14	BBC H 13- 15	BBCH 14- 15	BBCH 12-14	BBCH 14-19	BBCH 12-14	BBCH 17-19	BBCH 18-19	BBCH 12-16	BBCH 12-16	BBCH 13	BBCH 12-13	BBCH 13- 14	BBCH 13- 14	BBCH 13
Assessment date			17.11. 2020	12.11. 2020	12.11. 2020	16.10.202 0	21.10.202 1	21.10.202 1	28.09.202 1	22.10.202 1	25.09.202 1	22.10.202 1	25.09.202 1	03.12.202 1	03.12.202 1	03.12.202 1	03.12.202 1	03.12.20 21
Days after appli- cation DA-A			179 DA-A	167 DA-A	163 DA-A	151 DA-A	144 DA- A	129 DA- A	125 DA- A	134 DA- A	102 DA- A	140 DA- A	117 DA- A	197 DA-A	193 DA-A	186 DA-A	186 DA-A	192 DA- A
Crop stage majority			BBC H 49	BBC H 49	BBC H 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 99	BBCH 99	BBCH 99
N o.	Name	Rat e (L/ ha)																
1	Untreat- ed Check	-	15.89	15.53	15.84	16.22	19.48	16.41	16.30	19.84	13.93	21.99	15.47	18.18	18.70	18.94	18.13	17.76
2	CHR/I/ ADEL 280 SC	0.0 6	16.25	15.93	15.65	15.48	19.39	16.24	16.55	20.44	13.79	22.23	15.71	18.08	18.61	18.31	17.95	17.23
3	CHR/I/ ADEL 280 SC	0.0 8	16.19	15.61	15.84	15.82	19.33	16.46	16.58	20.26	14.47	21.84	15.63	18.57	18.59	18.49	18.12	18.04
4	CHR/I/ ADEL	0.0 8	16.41	15.87	15.86	15.96	19.65	16.42	16.67	19.95	14.12	21.99	15.61	18.10	18.76	18.10	17.60	17.24

	280 SC																				
	Asy- stent+	0.1 0																			
5	CHR/I/ ADEL 280 SC	0.1 0	15.98	15.77	15.85	15.97	20.00	16.71	16.41	19.88	13.69	21.35	15.14	18.61	18.91	17.91	17.70	17.67	17.3 5	13. 69	21. 35
6	CHR/I/ ADEL 280 SC	0.1 2	16.16	15.97	15.92	15.86	19.79	16.32	16.72	20.07	13.97	21.92	15.48	18.26	18.73	17.44	18.30	18.32	17.4 5	13. 97	21. 92
7	CHR/I/ ADEL 280 SC	0.1 4	16.12	15.84	15.39	16.26	19.31	16.08	16.23	19.63	13.94	21.80	15.75	18.35	18.41	18.39	18.03	17.75	17.3 3	13. 94	21. 80
8	CHR/I/ ADEL 280 SC	0.1 6	16.47	15.93	15.77	16.17	19.40	16.55	16.64	20.02	13.76	21.95	15.26	18.01	19.18	17.73	18.12	17.58	17.4 1	13. 76	21. 95
1 0	Decis Mega 50 EW	0.2 0	16.22	15.90	15.86	16.23	19.66	16.55	16.31	19.82	14.11	21.91	15.96	18.13	18.94	18.93	18.46	17.72	17.5 4	14. 11	21. 91
LSD(P=.05)			0.664	0.428	0.456	0.746	0.87	0.51	0.56	0.96	0.86	0.73	1.04	1.08	0.59	1.14	0.89	1.03			

Crop code			sugar beet/potassium content (mmol/1000g)																		
Report code			SRP L20- 419- 336F E	SRP L20- 420- 336F E	SRP L20- 421- 336F E	AI/20/Bc/ 24/Lu/01	A.T/2021 /081/BC	A.T/2021 /082/BC	A.T/2021 /083/BC	A.T/2021 /084/BC	A.T/2021 /085/BC	A.T/2021 /086/BC	A.T/2021 /087/BC	AI/21/BC /18/Br/1	AI/21/BC /18/La/2	AI/21/BC/ 18/Mr/3	AI/21/BC /18/Ko/4	AI/21/B C/18/ZI			
Application date			22.05. 2020	29.05. 2020	02.06. 2020	18.05.202 0	30.05.202 1	14.06.202 1	26.05.202 1	10.06.202 1	15.06.202 1	04.06.202 1	31.05.202 1	20.05.202 1	24.05.202 1	31.05.202 1	31.05.202 1	25.05.20 21			
Crop stage in application			BBC H 12-13	BBC H13-14	BBC H 13-15	BBCH 14-15	BBCH 12-14	BBCH 14-19	BBCH 12-14	BBCH 17-19	BBCH 18-19	BBCH 12-16	BBCH 12-16	BBCH 13	BBCH 12-13	BBCH 13-14	BBCH 13-14	BBCH 13			
Assessment date			17.11.2020	12.11.2020	12.11.2020	16.10.2020	21.10.202 1	21.10.202 1	28.09.202 1	22.10.202 1	25.09.202 1	22.10.202 1	25.09.202 1	03.12.202 1	03.12.202 1	03.12.202 1	03.12.202 1	03.12.20 21			
Days after appli- cation DA-A			179 DA-A	167 DA-A	163 DA-A	151 DA-A	144 DA- A	129 DA- A	125 DA- A	134 DA- A	102 DA- A	140 DA- A	117 DA- A	197 DA- A	193 DA-A	186 DA-A	186 DA-A	192 DA- A			
Crop stage majority			BBC H 49	BBC H 49	BBC H 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 99	BBCH 99	BBCH 99			
N o.	Name	Rat e (L/																	Ave rage	Mi n.	M ax.

		ha)																			
1	Untreated Check	-	40.95	50.30	46.52	42.25	48.20	44.58	55.43	42.30	49.30	39.00	63.43	45.36	39.95	39.05	43.70	42.90	45.83	39.00	63.43
2	CHR/I/ADEL 280 SC	0.06	41.33	54.68	53.60	44.28	46.83	47.95	51.98	40.55	47.78	36.60	65.28	44.90	40.15	45.31	42.45	44.75	46.78	36.60	65.28
3	CHR/I/ADEL 280 SC	0.08	41.28	46.83	46.28	42.65	48.48	48.38	53.63	41.30	46.10	38.15	66.90	44.40	39.40	43.35	43.10	42.50	45.80	38.15	66.90
4	CHR/I/ADEL 280 SC	0.08	42.20	56.05	52.31	43.60	49.28	46.95	52.55	41.63	49.73	37.88	62.35	48.05	40.99	42.78	44.63	43.60	47.16	37.88	62.35
	Asy-stent+	0.10																			
5	CHR/I/ADEL 280 SC	0.10	40.15	51.98	49.94	43.03	44.98	44.53	55.33	44.05	48.15	38.88	63.38	47.33	40.55	39.15	44.30	46.25	46.37	38.88	63.38
6	CHR/I/ADEL 280 SC	0.12	43.60	49.35	51.76	44.25	43.68	46.80	52.40	41.50	45.68	40.25	60.68	53.63	41.64	42.60	49.95	40.53	46.77	40.25	60.68
7	CHR/I/ADEL 280 SC	0.14	39.63	56.64	46.09	43.73	48.43	49.53	53.88	42.38	48.78	38.10	56.33	43.03	39.46	40.75	44.58	44.80	46.01	38.10	56.64
8	CHR/I/ADEL 280 SC	0.16	41.48	55.10	48.72	43.78	45.60	48.18	53.58	43.45	49.98	36.90	65.85	44.03	40.40	47.00	46.68	45.40	47.26	36.90	65.85
10	Decis Mega 50 EW	0.20	44.75	54.88	48.00	44.48	44.80	47.58	53.73	41.43	49.78	37.48	58.83	42.48	39.78	41.79	45.03	47.96	46.42	37.48	58.83
LSD(P=.05)			4.665	17.909	16.958 - 21.219	1.652	4.65	8.18	4.50	3.40	5.58	3.06	6.04	7.72	4.21	8.98	6.23	8.89			

table 3.4.3.1-21 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Sugar beet sodium content (mmol/1000g)

sugar beet/sodium content (mmol/1000g)																
Crop code																
Report code	SRPL2 0-419- 336FE	SRPL2 0-420- 336FE	SRPL2 0-421- 336FE	AI/20/B c/24/Lu /01	A.T/20 21/081/ BC	A.T/20 21/082/ BC	A.T/20 21/083/ BC	A.T/20 21/084/ BC	A.T/20 21/085/ BC	A.T/20 21/086/ BC	A.T/20 21/087/ BC	AI/21/ BC/18/ Br/1	AI/21/B C/18/L a/2	AI/21/ BC/18/ Mr/3	AI/21/ BC/18/ Ko/4	AI/21/ C/18/Z
Application date	22.05.2	29.05.2	02.06.2	18.05.2	30.05.2	14.06.2	26.05.2	10.06.2	15.06.2	04.06.2	31.05.2	20.05.2	24.05.2	31.05.2	31.05.2	25.05.2

			020	020	020	020	021	021	021	021	021	021	021	021	021	021	021	021	021	021	021
Crop stage in application			BBCH 12-13	BBCH1 3-14	BBCH 13-15	BBCH 14-15	BBCH 12-14	BBCH 14-19	BBCH 12-14	BBCH 17-19	BBCH 18-19	BBCH 12-16	BBCH 12-16	BBCH 13	BBCH 12-13	BBCH 13-14	BBCH 13-14	BBCH 13	BBCH 13	BBCH 13	BBCH 13
Assessment date			17.11.2 020	12.11.2 020	12.11.2 020	16.10.2 020	21.10.2 021	21.10.2 021	28.09.2 021	22.10.2 021	25.09.2 021	22.10.2 021	25.09.2 021	03.12.2 021	03.12.2 021	03.12.2 021	03.12.2 021	03.12.2 021	03.12.2 021	03.12.2 021	03.12.2 021
Days after application DA-A			179 DA-A	167 DA-A	163 DA-A	151 DA-A	144 DA-A	129 DA-A	125 DA-A	134 DA-A	102 DA-A	140 DA-A	117 DA-A	197 DA-A	193 DA-A	186 DA-A	186 DA-A	192 DA-A	192 DA-A	192 DA-A	192 DA-A
Crop stage majority			BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99	BBCH 99
N o.	Name	Rate (L/ha)																			
1	Untreated Check	-	6.00	8.88	8.40	4.80	8.90	8.73	7.73	2.55	7.65	5.58	7.03	4.70	4.65	4.45	4.43	4.93	6.21	2.55	8.90
2	CHR/I/ADEL 280 SC	0.06	6.50	9.18	9.18	4.88	8.45	9.03	7.15	2.93	7.15	4.63	7.03	4.73	4.83	4.60	4.95	4.78	6.25	2.93	9.18
3	CHR/I/ADEL 280 SC	0.08	6.78	9.38	9.05	4.90	10.18	8.90	7.78	3.33	6.73	5.20	8.93	5.10	4.94	4.43	4.63	4.53	6.55	3.33	10.18
4	CHR/I/ADEL 280 SC	0.08	6.43	7.64	9.58	4.85	8.80	6.93	7.03	2.10	8.13	5.70	7.10	4.18	5.48	4.83	4.65	4.48	6.12	2.10	9.58
	Asystent+	0.10																			
5	CHR/I/ADEL 280 SC	0.10	6.28	8.53	8.63	4.70	6.65	8.33	8.25	2.45	6.85	5.75	6.85	4.58	4.80	4.28	4.23	4.50	5.98	2.45	8.63
6	CHR/I/ADEL 280 SC	0.12	6.60	9.35	8.78	4.90	5.80	6.38	6.78	2.60	7.33	4.78	7.33	4.88	5.28	4.73	4.38	5.05	5.93	2.60	9.35
7	CHR/I/ADEL 280 SC	0.14	6.45	9.28	9.40	4.73	8.48	7.03	7.98	3.83	7.05	5.15	6.03	4.95	5.55	4.63	4.48	5.05	6.25	3.83	9.40
8	CHR/I/ADEL 280 SC	0.16	5.95	8.78	9.35	4.78	6.85	7.65	7.15	2.40	7.20	5.50	7.60	4.60	4.80	4.55	4.70	5.23	6.07	2.40	9.35
10	Decis Mega 50 EW	0.20	6.13	9.78	9.03	5.23	7.28	7.78	7.78	2.70	7.55	4.88	5.93	4.40	5.60	4.56	4.60	5.15	6.15	2.70	9.78
LSD(P=.05)			1.021	4.315	2.448	0.711	4.26	2.40	2.18	1.86	2.66	0.99	1.90	1.19	1.01	0.97	1.35	1.11			

table 3.4.3.1-23 The influence of the CHR/I/ADEL 280 SC on quality of yield  
Sugar beet nitrogen content (mmol/1000g)

Crop code		sugar beet/nitrogen content (mmol/1000g)																
Report code	SRP L20- 419- 336F E	SRP L20- 420- 336F E	SRP L20- 421- 336F E	AI/20/Bc/ 24/Lu/01	A.T/2021 /081/BC	A.T/2021 /082/BC	A.T/2021 /083/BC	A.T/2021 /084/BC	A.T/2021 /085/BC	A.T/2021 /086/BC	A.T/2021 /087/BC	AI/21/BC /18/Br/1	AI/21/BC /18/La/2	AI/21/BC/ 18/Mr/3	AI/21/BC/ 18/Ko/4	AI/21/B C/18/ZI		
Application date	22.05.	29.05.	02.06.	18.05.202	30.05.202	14.06.202	26.05.202	10.06.202	15.06.202	04.06.202	31.05.202	20.05.202	24.05.202	31.05.202	31.05.202	25.05.20		

			2020	2020	2020	0	I	I	I	I	I	I	I	I	I	I	21				
Crop stage in application			BBC H 12-13	BBC H13-14	BBC H 13-15	BBCH 14-15	BBCH 12-14	BBCH 14-19	BBCH 12-14	BBCH 17-19	BBCH 18-19	BBCH 12-16	BBCH 12-16	BBCH 13	BBCH 12-13	BBCH 13-14	BBCH 13-14	BBCH 13			
Assessment date			17.11.2020	12.11.2020	12.11.2020	16.10.2020	21.10.2020	21.10.2020	28.09.2020	22.10.2020	25.09.2020	22.10.2020	25.09.2020	03.12.2020	03.12.2020	03.12.2020	03.12.2020	03.12.2020			
Days after application DA-A			179 DA-A	167 DA-A	163 DA-A	151 DA-A	144 DA-A	129 DA-A	125 DA-A	134 DA-A	102 DA-A	140 DA-A	117 DA-A	197 DA-A	193 DA-A	186 DA-A	186 DA-A	192 DA-A			
Crop stage majority			BBC H 49	BBC H 49	BBC H 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 49	BBCH 99	BBCH 99	BBCH 99	Ave rage	M in.	M ax.
N o.	Name	Rat e (L/ ha)					I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
1	Untreated Check	-	21.43	28.23	29.43	30.70	14.78	24.95	21.73	9.65	23.45	6.25	18.35	22.16	18.55	18.75	20.50	21.95	20.68	6.25	30.70
2	CHR/I/ADEL 280 SC	0.06	22.60	28.53	29.13	28.58	13.68	24.85	23.63	8.60	22.35	5.15	18.00	19.78	19.23	19.21	21.83	21.83	20.44	5.15	29.13
3	CHR/I/ADEL 280 SC	0.08	21.88	25.78	27.38	28.33	14.68	24.50	20.58	10.83	20.93	5.73	16.48	20.70	18.11	18.48	21.05	20.60	19.75	5.73	28.33
4	CHR/I/ADEL 280 SC	0.08	23.85	31.08	29.68	31.10	15.00	24.50	19.30	9.55	20.65	5.88	15.55	20.80	20.35	20.30	23.78	22.13	20.84	5.88	31.10
	Asy- stent+	0.10																			
5	CHR/I/ADEL 280 SC	0.10	22.60	27.30	27.90	32.43	12.38	22.43	23.30	10.35	20.70	5.98	17.25	22.25	17.48	19.40	22.63	22.78	20.45	5.98	32.43
6	CHR/I/ADEL 280 SC	0.12	22.88	26.30	26.60	31.53	12.90	26.83	20.98	9.33	18.85	6.13	15.75	22.80	20.35	19.13	24.38	21.43	20.39	6.13	31.53
7	CHR/I/ADEL 280 SC	0.14	21.88	27.95	28.85	29.70	14.48	24.98	24.13	9.95	20.80	6.13	13.23	18.60	17.63	18.88	21.05	23.25	20.09	6.13	29.70
8	CHR/I/ADEL 280 SC	0.16	26.15	28.75	30.18	26.68	13.63	26.30	22.93	10.08	21.75	5.55	18.93	19.75	17.65	21.60	24.35	22.33	21.04	5.55	30.18
10	Decis Mega 50 EW	0.20	25.50	28.78	28.50	26.98	12.63	23.33	25.10	10.40	22.40	6.08	14.68	19.98	19.08	21.80	19.00	25.70	20.62	6.08	28.78
LSD(P=.05)			3.390	7.545	5.514	3.595	5.74	2.64	4.68	1.82	4.98	1.60	5.33	4.92	2.53	4.26	5.82	4.18			



Comments of zRMS:	<p>To establish an effect on the quality of plants or plant products the following parameters were tested:</p> <ul style="list-style-type: none"><li>- for winter oil seed rape:HLW [kg/hl], TGW[g], moisture content [%], oil content [%],</li><li>- for winter wheat: HLW [kg/hl], TGW[g], moisture content [%], protein content [%], gluten content [%],</li><li>- for winter triticale: HLW [kg/hl], TGW[g], moisture content [%], protein content [%], gluten content [%],</li><li>- for sugar beet: sugar content [%], potassium content [mmol/1000g], sodium content [mmol/1000g], nitrogen content [mmol/1000g].</li></ul> <p>No negative effects on the the quality of plants or plant products are expected after the application of CHR/I/ADEL 280 SC.</p>
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### 3.4.4 Effects on transformation processes (KCP 6.4.4)

#### Acetamiprid

Residue data, Part B, section 7 (Metabolism and Residues) show that at the proposed application rates, the residues of acetamiprid are below the LOQ in all crops. According to EPPO PP 1/243 (1) and Commission Regulation (EU) No 284/2013 additional tests in this range are not required in that case.

*EU Data: Peer review of the pesticide risk assessment of the active substance acetamiprid, EFSA Journal 2016;14(11):4610*

The assessment in the residue section is based on the OECD guidance document on overview of residue chemistry studies (OECD, 2009), the OECD publication on MRL calculations (OECD, 2011), the European Commission guideline on MRL setting (European Commission, 2015) and the Joint Meeting on Pesticide Residues (JMPR) recommendations on livestock burden calculations (JMPR, 2004, 2007). Metabolism in primary crops was investigated in the fruit, leafy, root and oilseeds/pulses crop groups, using <sup>14</sup>C-acetamiprid applied by dotting to the surface of the leaves and fruits (aubergine, apple), by spraying (cabbage, carrot, cotton) or using soil application (cabbage). In all plant parts, acetamiprid was identified as the major component of the radioactive residues (total radioactive residue (TRR)) accounting for ca. 30–90% TRR 14–90 days after the last application, except in head cabbage where the 6-chloronicotinic acid metabolite (IC-0) was the sole component identified, representing 46% TRR (0.023 mg eq/kg) and in cotton seeds (24% TRR at harvest, 0.27 mg/kg). IC-0 was also detected in carrot roots (26% TRR, 0.02 mg/kg). Other identified metabolites were observed at low levels, accounting mostly for less than 5% TRR, except metabolites IM-1-4 in immature carrot leaves (43% TRR). Having regard to the low persistence of acetamiprid in soil (highest field period required for 90% dissipation (DT90) 43 days and 20°C lab DT90 54 days), confined rotational crop studies were not conducted with the active substance and the metabolism in rotational crops was investigated using the more persistent soil metabolite IM-1-5 (period required for 50% dissipation (DT50) 319–663 days) at a single plant back interval of 0 days. In the different rotational crops investigated (wheat, turnip, spinach), IM-1-5 was shown to remain the main component of the radioactive residues accounting in immature plant at harvest for 77–94% TRR. Additional field rotational crop studies conducted in northern and southern EU with acetamiprid applied onto the bare soil at ca. 300 g/ha, confirmed that acetamiprid, IM-1-4 and IM-1-5 residues are not expected to be present in rotational crops. Since acetamiprid was identified by far, as the major component of the residues in almost all plant matrices and since the toxicity of the IC-0 metabolite was concluded to be covered by the toxicity of the parent acetamiprid, the plant residue definitions for monitoring and risk assessment were limited to acetamiprid. These residue definitions are identical to the definitions proposed in the framework of the review of the existing maximum residue levels (MRLs) under Article 12 of Regulation (EU) No 396/2005 (EFSA, 2011b) and implemented in the EU legislation.

#### Deltamethrin

The residue data Part B, Section 7 demonstrate that at the proposed application rates of deltamethrin residues above the LOQ are found. According to EPPO PP 1/243 (1) and Commission Regulation (EU) No 284/2013 additional tests are required.

The effect of processing on the nature of deltamethrin was investigated in the framework of the peer review (Sweden, 2002). Studies were conducted simulating representative hydrolytic conditions for pasteurisation (20 minutes at 90°C, pH 4), boiling/brewing/baking (60 minutes at 100°C, pH 5) and sterilisation (20 minutes at 120°C, pH 6). Under simulated pasteurisation and brewing, baking and boiling, deltamethrin is stable and only small quantities (0.9 to 5.2% of applied radioactivity) of the plant metabolite 3-phenoxybenzylaldehyde (mPB aldehyde) were detected. Following sterilisation process, deltamethrin represented 21–48% of the applied radioactivity (AR) and it was degraded mainly into two metabolites: mPB aldehyde (59–75% of the AR) and (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylic acid (Br2CA) (39–47% of AR). During the peer review these two substances were considered well known plant metabolites with no toxicological relevance. Although their toxicologi-

cal relevance may be reconsidered during the renewal of the approval of the active substance, the conclusions derived during the initial peer review were applied in the framework of this MRL review. It is also noted that in the hydrolysis studies, residues were always reported as deltamethrin and it is not clear if the analytical method used analysed for the sum of all isomers.

Detailed studies are submitted in Part B, Section 7 (Metabolism and Residues).

*According to Deltamethrin\_RAR\_01\_Volume\_1\_2018-02-20.pdf*

The levels of cis, trans and alpha-R-isomers were determined in some of the plant metabolism studies. In the livestock metabolism studies total deltamethrin was determined only. Of the representative uses being supported, only the trials conducted on wheat included the residue levels of cis, trans and alpha-R-isomers. In the livestock feeding studies it must be confirmed if residues in products of animal origin were determined as cis deltamethrin or the sum of all isomers. As a result of the lack of information in all commodities on the isomer levels, consumer intake assessments have been presented for all representative uses and wheat only. Where information was missing on the residue levels a provisional conversion factor to account for all three isomers has been applied in the risk assessments. The lack of information on the levels of the three isomers in crops and products of animal origin does not represent a risk to consumers.

Comments of zRMS:	No negative effects on transformation processes are expected.
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### 3.4.5 Impact on treated plants or plant products to be used for propagation (KCP 6.4.5)

There is no information available pointing to presence of any limitations to using of CHR/I/ADEL 280 SC in seed crops of winter oilseed rape, winter wheat, winter triticale and sugar beet.

In the course of studies carried out in Poland in the season of 2019, 2020 and 2021 on product CHR/I/ADEL 280 SC the insecticide has not been observed to have any significant influence on yield.

The product may be used in seed crops of winter oilseed rape, winter wheat, winter triticale and sugar beet.

Comments of zRMS:	No negative effects on treated plants or plant products to be used for propagation are expected. The product did not cause phytotoxicity symptoms and has no negative impact on the yield of treated crops.
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#### Summary and conclusion

The submitted efficacy data (reports from 91 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 1/233(1) *Athalia r*, *Plutella x*. and *Autographa g*. on arable Brassicaceae
- PP 1/228(2) Aphids on beet
- PP 1/229(1) Aphids on leguminous crops
- PP 1/230(1) Aphids on potato
- PP 1/20(3) Aphids on cereals
- PP 1/85(3) Thrips on outdoor crops
- PP 1/209(2) *Pegomya* spp. on beet and spinach
- PP 1/24(2) Aphids on potato, sugar beet, pea, broad bean and other vegetables
- PP 1/107(3) *Ceutorhynchus assimilis*
- PP 1/220(1) *Dasineura brassicae*

- PP 1/178(3) *Meligethes aeneus* on rape
- PP 1/219(1) *Ceutorhynchus napi* and *C. pallidactylus* (quadridens) in OSR
- PP1/237(1) Thrips on cereals

The formulation of CHR/I/ADEL 280 SC is suspension concentrate (SC) and it comprises active substances: acetamiprid 250 g/L and deltamethrin 30 g/L. The applicant submitted 91 reports (in total) showing the results in research into product efficacy carried out in 2019 in winter oilseed rape (autumn application - 4 trials), in 2020 in winter oilseed rape (spring application - 7 trials, autumn application – 12 trials), winter wheat (4 trials), winter triticale (3 trials) and in sugar beet (4 trials) and in 2021 in winter oilseed rape (spring application - 27 trials), winter wheat (6 trials), winter triticale (12 trials) and in sugar beet (12 trials).

The obtained data in performed trials show that CHR/I/ADEL 280 SC provides benefits against the most important insects in winter oilseed rape, winter wheat, winter triticale and sugar beet as shown in the table below.

The following table describes the effectiveness of insects control

E	at least 80 % - effectively protect
M	60 % - 80% - medium effectively protect
L	less than or 40 % - 60 % - limiting the number of pest

The following table shows the average efficacy of insects control in winter oilseed rape (in autumn application):

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	56.91	L
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	90.85	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	59.95	L
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	76.42	M
CHR/I/ADEL 280 SC 0.08 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	63.01	M
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	93.33	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	74.80	M
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	84.80	E
CHR/I/ADEL 280 SC 0.08 L/ha  Asystent+ 0.10 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	72.12	M
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	95.20	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	81.00	E
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	88.78	E
CHR/I/ADEL 280 SC 0.10 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	72.52	M
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	98.70	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	79.23	M

	MYZU- PE/BRVCBR	<i>Myzus persicae/ Brevi- coryne brassicae</i>	3-8 DA-A	larva	89.44	E
CHR/I/ADEL L 280 SC 0.12 L/ha	ATAL- CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	80.35	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	99.28	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	84.25	E
	MYZU- PE/BRVCBR	<i>Myzus persicae/ Brevi- coryne brassicae</i>	3-8 DA-A	larva	92.03	E
CHR/I/ADEL L 280 SC 0.14 L/ha	ATAL- CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	84.90	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	98.95	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	87.50	E
	MYZU- PE/BRVCBR	<i>Myzus persicae/ Brevi- coryne brassicae</i>	3-8 DA-A	larva	93.66	E
CHR/I/ADEL L 280 SC 0.16 L/ha	ATAL- CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	89.57	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	97.65	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	87.25	E
	MYZU- PE/BRVCBR	<i>Myzus persicae/ Brevi- coryne brassicae</i>	3-8 DA-A	larva	92.97	E
Los Ovados 200 SE 0.25 L/ha  Asystent+ 0.10 L/ha	ATAL- CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	59.40	L
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	97.13	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	86.00	E
	MYZU- PE/BRVCBR	<i>Myzus persicae/ Brevi- coryne brassicae</i>	3-8 DA-A	larva	92.09	E
Decis Mega 50 EW 0.15 L/ha	ATAL- CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	92.93	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	41.15	L
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	59.60	L
	MYZU- PE/BRVCBR	<i>Myzus persicae/ Brevi- coryne brassicae</i>	3-8 DA-A	larva	57.79	L

The following table shows the average efficacy of insects control in winter oilseed rape (in spring application):

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	39.34	L
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	47.26	L
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	64.69	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	55.24	L
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	38.00	L
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	58.84	L
CHR/I/ADEL 280 SC 0.08 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	53.70	L
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	57.18	L
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	69.31	M

	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	65.71	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	82.00	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	67.86	M
CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	66.69	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	64.61	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	73.59	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	74.31	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	87.00	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	74.40	M
CHR/I/ADEL 280 SC 0.10 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	57.59	L
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	59.72	L
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	74.81	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	78.76	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	81.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	76.13	M
CHR/I/ADEL 280 SC 0.12 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	65.86	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	66.06	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	79.83	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	81.76	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	86.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	78.04	M
CHR/I/ADEL 280 SC 0.14 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	71.32	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	72.16	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	83.21	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	83.66	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	93.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	78.96	M
CHR/I/ADEL 280 SC 0.16 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	73.35	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	74.33	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	84.85	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	82.76	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	91.00	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	84.67	E
Los Ovados 200 SE 0.25 L/ha + Asystent+ 0.10 L/ha	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	76.93	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	72.01	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	74.00	M
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	80.34	E
Decis Mega 50 EW 0.15 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	78.01	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	82.56	E



	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	73.28	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	65.60	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	83.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	65.74	M
Inazuma 130 WG 0.20 kg/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	76.72	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	74.39	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	77.50	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	74.94	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	92.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	76.01	M

The following table shows the average efficacy of insects control in winter wheat:

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	71.45	M
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	86.90	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae</i> / <i>Metopolophium dirhodum</i> / <i>Rhopalosiphum padi</i>	1-9 DA-A	all stages	75.85	M
	THRISP	<i>Thrips</i> sp.	1-3 DA-A	adult	56.91	L
CHR/I/ADEL 280 SC 0.08 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	79.45	M
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae</i> / <i>Metopolophium dirhodum</i> / <i>Rhopalosiphum padi</i>	1-9 DA-A	all stages	83.56	E
	THRISP	<i>Thrips</i> sp.	1-3 DA-A	adult	71.24	M
CHR/I/ADEL 280 SC 0.08 L/ha + Asy- stent+ 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	86.67	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae</i> / <i>Metopolophium dirhodum</i> / <i>Rhopalosiphum padi</i>	1-9 DA-A	all stages	89.33	E
	THRISP	<i>Thrips</i> sp.	1-3 DA-A	adult	77.62	M
CHR/I/ADEL 280 SC 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	88.63	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae</i> / <i>Metopolophium dirhodum</i> / <i>Rhopalosiphum padi</i>	1-9 DA-A	all stages	90.90	E
	THRISP	<i>Thrips</i> sp.	1-3 DA-A	adult	81.84	E
CHR/I/ADEL 280 SC 0.12 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	91.70	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E

	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	93.36	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	88.09	E
CHR/I/ADEL 280 SC 0.14 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	94.68	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	95.74	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	91.98	E
CHR/I/ADEL 280 SC 0.16 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	96.13	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	96.90	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	93.69	E
Decis Mega 50 EW 0.125 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	94.21	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	95.37	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	94.55	E
Fastac active 50 ME 0.30 kg/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	95.28	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	96.22	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	94.85	E

The following table shows the average efficacy of insects control in winter triticales:

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	64.26	M
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	68.73	M
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	68.12	M
CHR/I/ADEL 280 SC 0.08 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	77.90	M
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	80.66	E



	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	75.30	M
CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	81.89	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	84.15	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	79.68	M
CHR/I/ADEL 280 SC 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	84.31	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	86.28	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	83.63	E
CHR/I/ADEL 280 SC 0.12 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	87.36	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	88.94	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	86.47	E
CHR/I/ADEL 280 SC 0.14 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	89.29	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	90.63	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	91.63	E
CHR/I/ADEL 280 SC 0.16 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	91.24	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	92.34	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	94.07	E
Decis Mega 50 EW 0.125 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	88.17	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	90.14	E
Fastac active 50 ME 0.30 kg/ha	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	95.90	E

The following table shows the average efficacy of insects control in sugar beet:

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	62.34	M

0.06 L/ha	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	68.32	L
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	30.80	L
CHR/I/ADEL 280 SC 0.08 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	72.48	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	83.88	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	46.60	L
CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	77.37	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	85.64	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	43.65	L
CHR/I/ADEL 280 SC 0.10 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	77.88	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	87.24	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	50.70	L
CHR/I/ADEL 280 SC 0.12 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	79.37	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	87.08	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	54.30	L
CHR/I/ADEL 280 SC 0.14 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	82.16	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	89.61	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	61.50	M
CHR/I/ADEL 280 SC 0.16 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	85.13	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	90.85	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	57.75	L
Decis Mega 50 EW 0.20 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	69.95	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	92.72	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	33.00	L

Insecticide CHR/I/ADEL 280 SC has demonstrated good crop tolerance to winter oilseed rape, winter wheat, winter triticale and sugar beet. Therefore concluded that CHR/I/ADEL 280 SC is safe usage at proposed rate and this support the label claim for the use in winter oilseed rape, winter wheat, winter triticale 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/I/ADEL 280 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

Winter oilseed rape, winter wheat, winter triticale, sugar beet:

Recommended dose at:

CHR/I/ADEL 280 SC 0.08 L/ha

The product CHR/I/ADEL 280 SC should be use once per season post – emergence in autumn or in spring in winter oilseed rape, in autumn in winter wheat and winter triticale, and in spring in sugar beet. To avoid resistance, products contain active substance with the same group shouldn't be used year after year on the same field.

CHR/I/ADEL 280 EC is to be applied in autumn:

**winter oilseed rape**

BBCH 10-21 in winter oilseed rape,

and in spring:

**winter oilseed rape, winter wheat, winter triticale, sugar beet:**

BBCH 30-70 in winter oilseed rape,

BBCH 65-76 in winter wheat,

BBCH 49-77 in winter triticale,

BBCH 12-19 in sugar beet.

Recommended volume of water 200-300 L/ha (winter oilseed rape, winter wheat, winter triticale, sugar beet)

Recommended medium droplet spraying

Use of CHR/I/ADEL 280 SC according to the proposed GAP does not represent a hazard to rotational crops and does not justify a specific labelling. CHR/I/ADEL 280 SC 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)

Acetamiprid residues in succeeding crops have been sufficiently investigated taking into account the specific circumstances of the cGAP uses being considered here (Palau I., 2021, ACI19-002). It is very unlikely that residues will be present in succeeding crops.

Deltamethrin residues in succeeding crops have been sufficiently investigated taking into account the specific circumstances of the cGAP uses being considered here (Krebs, Eickhoff, and Raquet, 1986). It is very unlikely that residues will be present in succeeding crops.

#### Information on CHR/I/ADEL 280 SC (KCA 6.8)

Crop	PHI for CHR/I/ADEL 280 SC proposed by applicant	PHI/ Withholding period* sufficiently supported for		PHI for CHR/I/ADEL 280 SC proposed by zRMS	zRMS Comments (if different PHI proposed)
		Acetamiprid	Deltamethrin		
Winter wheat	24-60	24-37	27-60	-	-
Winter oilseed rape	27-95	27-41	86-95	-	-
Spring barley	27-31	NR	27-31	-	-
Sugar beets	66-96	66-96	NR	-	-

NR: not relevant

\* Purpose of withholding period to be specified

\*\* F: PHI is defined by the application stage at last treatment (time elapsing between last treatment and harvest of the crop).

**Table 3.5-1: PEC-values and TER-calculation of test product (active substance) based on NOER-values.**

Succeeding crop <sup>(1)</sup>	Days after application <sup>(2)</sup>	NOER (Plant dry weight) mg/kg soil <sup>(3)</sup>	PEC <sup>(4)</sup>		TER <sup>(5)</sup>	
			mg/kg soil e.g. 5 cm	mg/kg soil e.g. 20 cm	EC10/PEC e.g. 5 cm	EC10/PEC e.g. 20 cm
<i>Pisum sativum</i> <i>Helianthus annuus</i> <i>Linum usitatissimum</i> <i>Daucus carota</i> <i>Allium cepa</i> <i>Zea mays</i>	14 14 14 14 14 14	> 160 ml prod/ha which is equivalent to 174.18 g prod/ha	0.1858	0.01161	937	15 002

- (1) possible following crops in a regular crop rotation  
(2) adequate value for following crop in a regular crop rotation  
(3) EC10-values of succeeding crops  
(4) PEC (soil depth e.g. 5/20 cm)  
(5) TER (soil depth e.g. 5/20 cm)

The TER values of CHR/I/ADEL 280 SC do exceed a trigger value 1, then no further trials are required.

Comments of zRMS:	The risk of adverse impact of CHR/I/ADEL 280 SC on succeeding crops is not expected.
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### 3.5.2 Impact on other plants including adjacent crops (KCP 6.5.2)

The risk assessment is based on the “Guidance Document on Terrestrial Ecotoxicology”, (SAN-CO/10329/2002 rev.2 final, 2002). It is restricted to off-field situations, as non-target plants are non-crop plants located outside the treated area. To achieve a concise risk assessment, the risk envelope approach is applied. Here, the assessment for the use CHR/I/ADEL in sugar beets which is also covers the risk for non-target terrestrial plants from all other intended uses.

#### Assessment of the risk for non-target plants due to the use of CHR/I/ADEL 280 SC in winter cereals

Intended use Active substance/product Application rate (ga.s./ha) MAF	Sugarbeets CHR/I/ADEL 280 SC 174.18 1			
Test species	ER <sub>50</sub> (g/ha)	Drift rate	PER <sub>off-field</sub> (g/ha)	TER criterion: TER ≥ 5

<i>Pisum sativum</i> <i>Helianthus annuus</i> <i>Linum usitatissimum</i> <i>Daucus carota</i> <i>Allium cepa</i> <i>Zea mays</i>	ER50 > 160 ml prod/ha which is equivalent to 174.18 g prod/ha	0.0277	4.83	<b>36.06</b>
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MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger.

Based on the predicted rates of CHR/I/ADEL 280 SC in off-field areas, the TER values describing the risk for non-target plants following exposure to CHR/I/ADEL 280 SC according to the GAP of the formulation CHR/I/ADEL 280 SC achieve the acceptability criteria  $TER \geq 5$ , with applying buffer zone of 1m mitigation measures.

Comments of zRMS:	The risk of impact on other plants including adjacent crops of of CHR/I/ADEL 280 SC is not expected with applying buffer zone of 1m mitigation measures.
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#### Tank cleaning

Cleaning of equipment should be conducted according to the flowing 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/I/ADEL 280 SC is non-corrosive to equipment, non-flammable and non-volatile.

Comments of zRMS:	Proposed Standard tank cleaning procedure after application of the product is acceptable.
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### 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)
Institute of Plant Protection - National Research Institute, Sosnowice Branch	ul. Gliwicka 29, 44-153 Sośnicowice, Poland	Yes
Poznań University of Life Sciences, Research and Education Center Gorzyń	ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Yes
SynTech Research Poland Sp. z o.o.	ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland	Yes
A.T Sp. z o.o.	ul. Przemysłowa 3, 88-300 Mogilno, Poland	Yes
PerfectBAD Justyna Rezmerska-Piętka	ul. Przytargowa 4 99-412 Kiernozia	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 Ver- tebrate study Y/N	Owner
KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Anna Garbaciak	2020	Biological expertise of efficacy of insecticides CHR/I/ADEL (280 SC), Asystent+, Los Ova-dos 200 se for aphid control in WOSR in the autumn Istitute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29, 44-153 Sośnicowice, Poland Report no.: 4I/2020 GEP – yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Athalia rosae. Poland, 2019. A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2019/085/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Aphids. Poland, 2019 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Report no.: A.T/2019/086/RZO GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Agnieszka Faligow-ska	2020	Ocena skuteczności i fitotoksyczności prepara-tu CHR/I/ADEL 280 SC w zwalczaniu gnata-rza rzepakowca w uprawie rzepaku ozimego Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/19/RO/27/ZI/ADEL GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Ceutorhynchus pallidactylus and Ceutorhyn-chus napi. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Report no.: A.T/2020/027/RZO GEP - yes	N	Chemiroł

			Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of blossom beetle ( <i>Meligethes aeneus</i> ). Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Report no.: A.T/2020/029/RZO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of blossom beetle ( <i>Meligethes aeneus</i> ). Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Report no.: A.T/2020/030/RZO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Ceutorhynchus assimilis</i> and <i>Dasineura brassicae</i> . Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Report no.: A.T/2020/031/RZO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Ceutorhynchus assimilis</i> . Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Report no.: A.T/2020/032/RZO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2020	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Dasineura brassicae</i> . Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Report no.: A.T/2020/085/RZO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Agnieszka Faligowska	2020	The studies on the biological evaluation of efficacy of CHR/I/ADEL in the control of <i>Ceutorhynchus polidactylus</i> in winter rape cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/20/RO/7/NW/ADEL GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4	Piotr Maluga	2021	Effectiveness of CHR/I/ADEL 280 sc (acetamiprid 250 g/l + deltamethrin 30 g/l) on aphids and thrips in winter wheat.	N	Chemirool



KCP 6.4.1 KCP 6.4.2 KCP 6.4.3			SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-413-336FE GEP – yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	Effectiveness of CHR/I/ADEL 280 SC (acetamiprid 250 g/l + deltamethrin 30 g/l) on aphids and thrips in winter wheat. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-414-336FE GEP – yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Mateusz Ćwiek	2021	Effectiveness of CHR/I/ADEL 280 SC (acetamiprid 250 g/l + deltamethrin 30 g/l) on thrips in winter wheat. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-416-336FE GEP – yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Mateusz Świtkowski	2021	Effectiveness of CHR/I/ADEL 280 SC (acetamiprid 250 g/l + deltamethrin 30 g/l) on thrips in winter wheat. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-417-336FE GEP – yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Jacek Kozłowski	2021	Effectiveness of CHR/I/ADEL 280 SC (acetamiprid 250 g/l + deltamethrin 30 g/l) on aphid and thrips in winter triticales. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-415-336FE GEP – yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Jacek Kozłowski	2021	Effectiveness of CHR/I/ADEL 280 SC (acetamiprid 250 g/l + deltamethrin 30 g/l) on thrips in winter triticales. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL20-418-336FE GEP – yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiwicz	2020	The research on the efficacy and phytotoxicity of product CHR/I/ADEL in aphids control in triticales cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/20/PszO/24/Gr/02	N	Chemiorol

			GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2021	Effectiveness of CHR/I/ADEL 280 SC (acet- amiprid 250 g/L + deltamethrin 30 g/L) on Pegomya hyoscyam in sugar beet. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Po- land Report no.: SRPL20-419-336FE GEP – yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Jacek Kozłowski	2021	Effectiveness of CHR/I/ADEL 280 SC (acet- amiprid 250 g/L + deltamethrin 30 g/L) on Pegomya hyoscyam in sugar beet. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Po- land Report no.: SRPL20-420-336FE GEP – yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Jacek Kozłowski	2021	Effectiveness of CHR/I/ADEL 280 SC (acet- amiprid 250 g/L + deltamethrin 30 g/L) on aphids in sugar beet. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Po- land Report no.: SRPL20-421-336FE GEP – yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasie- wicz	2020	The research on efficacy and phytotoxicity of product CHR/I/ADEL in the aphid control in sugar beet cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/20/Bc/24/Lu/01 GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Athalia rosae. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2020/116/RZO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Athalia rosae. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2020/117/RZO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control	N	Chemirool

KCP 6.4.1 KCP 6.4.2 KCP 6.4.3			of <i>Athalia rosae</i> . Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2020/118/RZO GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Aphids. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2020/119/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Aphids. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2020/120/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Aphids. Poland, 2020 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2020/121/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Agnieszka Faligowska	2021	THE STUDIES ON THE BIOLOGICAL EVALUATION OF EFFICACY OF CHR/I/ADEL 280 SC IN THE CONTROL OF <i>ATHALIA ROSAE</i> IN WINTER RAPE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/20/RO/36/Pr/1 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE STUDIES ON THE BIOLOGICAL EVALUATION OF EFFICACY OF CHR/I/ADEL 280 SC IN THE CONTROL OF APHIS IN WINTER RAPE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/20/RO/36/Zł/2 GEP - yes Unpublished	N	Chemirol

KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE STUDIES ON THE BIOLOGICAL EVALUATION OF EFFICACY OF CHR/I/ADEL 280 SC IN THE CONTROL OF APHIS IN WINTER RAPE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/20/RO/36/Br/3 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Sławomir Drzewiecki	2021	Biological expertise of efficacy of insecticide CHR/I/ADEL (280 SC) for <i>Athalia rosae</i> L. control in WOSR in the autumn Institute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29, 44-153 Sośnicowice, Poland Report no.: 4I/2021 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Sławomir Drzewiecki	2021	Biological expertise of efficacy of insecticide CHR/I/ADEL (280 SC) for <i>Athalia rosae</i> L. control in WOSR in the autumn Institute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29, 44-153 Sośnicowice, Poland Report no.: 5I/2021 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Sławomir Drzewiecki	2021	Biological expertise of efficacy of insecticide CHR/I/ADEL (280 SC) for <i>Aphididae</i> spp. control in WOSR in the autumn Institute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29, 44-153 Sośnicowice, Poland Report no.: 6I/2021 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Ceutorhynchus napi</i> . Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/001/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Ceutorhynchus napi</i> . Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/002/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter	N	Chemirol

KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3			oilseed rape to control of Ceutorhynchus napi. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/003/RZO GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Ceutorhynchus napi. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/004/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Ceutorhynchus napi. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/005/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Ceutorhynchus palli- dactylus. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/006/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Ceutorhynchus palli- dactylus. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/007/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of Ceutorhynchus palli- dactylus. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/008/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of blossom beetle (Mel- igethes aeneus). Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/009/RZO	N	Chemirol

			GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of blossom beetle ( <i>Meligethes aeneus</i> ). Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/010/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Ceutorhynchus assimilis</i> . Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/064/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Ceutorhynchus assimilis</i> . Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/065/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of CHR/I/ADEL 280 SC when applied in winter oilseed rape to control of <i>Dasineura brassicae</i> . Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/066/RZO GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE EVALUATION OF EFFICACY OF CHR/I/ADEL IN THE CONTROL OF CEUTORHYNCHUS NAPI AND C. PALLIDACTYLUS (QUADRIDENS) IN WINTER RAPE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/RO/4/Pr/01 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE EVALUATION OF EFFICACY OF CHR/I/ADEL IN THE CONTROL OF CEUTORHYNCHUS NAPI AND C. PALLIDACTYLUS (QUADRIDENS) IN WINTER RAPE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/RO/4/Zł/02 GEP - yes Unpublished	N	Chemirol

KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasię-wicz	2021	THE EVALUATION OF EFFICACY OF CHR/I/ADEL IN THE CONTROL OF CEUTORHYNCHUS NAPI AND C. PALLIDACTYLUS (QUADRIDENS) IN WINTER RAPE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/RO/4/Br/03 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Artur Strzeliński	2021	THE STUDIES ON THE BIOLOGICAL EVALUATION OF EFFICACY OF CHR/I/ADEL IN THE CONTROL OF CABBAGE GALL WEEVIL AND DASI-NEURA SP. IN WINTER RAPE CULTIVA-TION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/RO/14/Ma/ADEL GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Anna Kozłowska	2021	The efficacy of insecticide CHR/I/ADEL 280 SC in winter rape - Meligethes aeneus PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia Report no.: CH-WR-I-ADEL-2021-01 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Anna Kozłowska	2021	The efficacy of insecticide CHR/I/ADEL 280 SC in winter rape - Meligethes aeneus PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia Report no.: CH-WR-I-ADEL-2021-02 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Anna Kozłowska	2021	The efficacy of insecticide CHR/I/ADEL 280 SC in winter rape - Ceutorhynchus assimilis Payk. i Dasineura brassicae Winn.) PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia Report no.: CH-WR-I-ADEL-2021-03 GEP - yes Unpublished	N	Chemiroł
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Anna Kozłowska	2021	The efficacy of insecticide CHR/I/ADEL 280 SC in winter rape - Ceutorhynchus assimilis Payk. i Dasineura brassicae Winn.) PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia Report no.: CH-WR-I-ADEL-2021-04 GEP - yes Unpublished	N	Chemiroł



KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAMETHRIN 30 G/L) ON BLOSSOM BEETLE IN OSR. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL21-401-336FE GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAMETHRIN 30 G/L) ON BLOSSOM BEETLE IN OSR. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL21-402-336FE GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Sławomir Drzewiecki	2021	Biological efficacy expertise of insecticides CHR/I/ADEL (280 SC), Asystent +, Decis Mega 050 EW for Ceutorhynchus pallidactylus Marsch. control in winter oilseed rape Institute of Plant Protection - National Research Institute, Sosnowice Branch ul. Gliwicka 29, 44-153 Sosnowice, Poland Report no.: 9I/2021 GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Sławomir Drzewiecki	2021	Biological efficacy expertise of insecticides CHR/I/ADEL (280 SC), Asystent +, Decis Mega 050 EW for Ceutorhynchus pallidactylus Marsch. control in winter oilseed rape Institute of Plant Protection - National Research Institute, Sosnowice Branch ul. Gliwicka 29, 44-153 Sosnowice, Poland Report no.: 10I/2021 GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Sławomir Drzewiecki	2021	Biological efficacy expertise of insecticide CHR/I/ADEL (280 SC), Asystent + for Ceutorhynchus assimilis and Dasyneura brassicae Winn. control in winter oilseed rape. Institute of Plant Protection - National Research Institute, Sosnowice Branch ul. Gliwicka 29, 44-153 Sosnowice, Poland Report no.: 11I/2021 GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Sławomir Drzewiecki	2021	Biological efficacy expertise of insecticide CHR/I/ADEL (280 SC), Asystent + for Ceutorhynchus assimilis and Dasyneura brassicae Winn. control in winter oilseed rape. Institute of Plant Protection - National Research Institute, Sosnowice Branch ul. Gliwicka 29, 44-153 Sosnowice, Poland Report no.: 12I/2021 GEP - yes	N	Chemiorol



			Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter wheat to control of aphids and thrips. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/088/PO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter wheat to control of aphids and thrips. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/089/PO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter wheat to control of aphids and thrips. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/090/PO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter wheat to control of aphids and thrips. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/091/PO GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAME- THRIN 30 G/L) ON APHIDS AND THRIPS IN WINTER WHEAT. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Po- land Report no.: SRPL21-450-336FE GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	Effectiveness of CHR/I/ADEL 280 SC (acet- amiprid 250 g/L + deltamethrin 30 g/L) on aphids and thrips in winter wheat. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Po- land Report no.: SRPL21-451-336FE GEP - yes Unpublished	N	Chemirool
KCP 6 KCP 6.2 KCP 6.4	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter triticale to control of aphids. Poland, 2021	N	Chemirool

KCP 6.4.1 KCP 6.4.2 KCP 6.4.3			A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/092/PŻO GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter triticale to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/093/PŻO GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter triticale to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/094/PŻO GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in winter triticale to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/095/PŻO GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Agnieszka Faligowska	2021	THE RESEARCH ON THE EFFICACY AND PHYTOTOXICITY OF PRODUCT CHR/I/ADEL 280 SC IN APHIS CONTROL IN TRITICALE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/PszO/20/Pr/1 GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Agnieszka Faligowska	2021	THE RESEARCH ON THE EFFICACY AND PHYTOTOXICITY OF PRODUCT CHR/I/ADEL 280 SC IN APHIS CONTROL IN TRITICALE CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/PszO/20/Ra/2 GEP - yes Unpublished	N	Chemiorol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAME- THRIN 30 G/L) ON THRIPS IN WINTER TRITICALE. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Po- land Report no.: SRPL21-452-336FE	N	Chemiorol

			GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAMETHRIN 30 G/L) ON THRIPS IN WINTER TRITICALE. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL21-453-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAMETHRIN 30 G/L) ON THRIPS IN WINTER TRITICALE. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL21-454-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAMETHRIN 30 G/L) ON THRIPS IN WINTER TRITICALE. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL21-455-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAMETHRIN 30 G/L) ON THRIPS IN WINTER TRITICALE. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL21-456-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Zdzisław Jaskólski	2021	EFFECTIVENESS OF CHR/I/ADEL 280 SC (ACETAMIPRID 250 G/L + DELTAMETHRIN 30 G/L) ON THRIPS IN WINTER TRITICALE. SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1, 85-027 Bydgoszcz, Poland Report no.: SRPL21-457-336FE GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in sugar beet to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/081/BC GEP - yes	N	Chemirol

			Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in sugar beet to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/082/BC GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in sugar beet to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/083/BC GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in sugar beet to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/084/BC GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in sugar beet to control of aphids. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/085/BC GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in sugar beet to control of Pegomya hyoscyami. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/086/BC GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2021	Efficacy evaluation of insecticide CHR/I/ADEL 280 SC when applied in sugar beet to control of Pegomya hyoscyami. Poland, 2021 A.T Sp. z o.o. ul. Przemysłowa 3, 88-300 Mogilno, Poland Reprto no.: A.T/2021/087/BC GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasię- wicz	2021	THE RESEARCH ON EFFICACY AND PHYTOTOXICITY OF PRODUCT CHR/I/ADEL IN THE Pegomya hyoscyami CONTROL IN SUGAR BEET CULTIVA- TION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28,	N	Chemirol

			60-637 Poznań, Poland Report no.: AI/21/BC/18/Br/1 GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE RESEARCH ON EFFICACY AND PHYTOTOXICITY OF PRODUCT CHR/I/ADEL IN THE <i>Pegomya hyoscyami</i> CONTROL IN SUGAR BEET CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/BC/18/La/2 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE RESEARCH ON EFFICACY AND PHYTOTOXICITY OF PRODUCT CHR/I/ADEL IN THE <i>Pegomya hyoscyami</i> CONTROL IN SUGAR BEET CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/BC/18/Mr/3 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE RESEARCH ON EFFICACY AND PHYTOTOXICITY OF PRODUCT CHR/I/ADEL IN THE <i>Pegomya hyoscyami</i> CONTROL IN SUGAR BEET CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/BC/18/Ko/4 GEP - yes Unpublished	N	Chemirol
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Katarzyna Panasiewicz	2021	THE RESEARCH ON EFFICACY AND PHYTOTOXICITY OF PRODUCT CHR/I/ADEL IN THE APHIS CONTROL IN SUGAR BEET CULTIVATION Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland Report no.: AI/21/BC/18/ZI GEP - yes Unpublished	N	Chemirol

**List of data submitted or referred to by the applicant and relied on, but already evaluated at EU peer review**

Not applicable

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a

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**List of data submitted by the applicant and not relied on**

Not applicable

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a

**List of data relied on not submitted by the applicant but necessary for evaluation**

Not applicable

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Owner
n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a



## 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/I/ADEL 280 SC

#### 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 spring and autumn, foliar applied, insecticide CHR/I/ADEL 280 SC in the Czech Republic.

#### 2. Plant protection products under consideration

##### 2.1. General

The efficacy and phytotoxicity studies were conducted in Poland in 2019 and 2020 on the plant protection product CHR/I/ADEL 280 SC containing 250 g/L of acetamiprid + 30 g/L of deltamethrin and a standard insecticides Los Ovados 200 SE + Asystent+, Decis Mega 50 EW, Inazuma 130 Wg and Fastac Active 50 ME. Total of 22 efficacy (11 trials in winter oilseed rape, 4 trials in winter wheat, 3 trials in winter triticale, 4 trials in sugar beet) and 22 phytotoxicity (11 trials in winter oilseed rape, 4 trials in winter wheat, 3 trials in winter triticale, 4 trials in sugar beet) GEP trials were carried out to assess the product's efficacy and phytotoxic potential.

##### 2.2. Products' characteristics:

Table 1. Products' characteristics

PRODUCT	CHR/I/ADEL 280 SC	Los Ovados 200 SE + Asystent+	Decis Mega 50 EW	Inazuma 130 WG	Fastac Active 50 ME
<b>active substance content</b>	250 g/L (acetamiprid) + 30 g/L (deltamethrin)	200 g/L (acetamiprid)	50 g/L (deltamethrin)	100 g/L (acetamiprid) + 30 g/L (lambda-cyhalothrin)	50 g/L (alpha-cypermethrin)
<b>formulation</b>	SC – Suspension Concentrate	SE - suspension emulsion	EW - emulsion, oil in water	WG - water-dispersible granules	ME - microemulsion

The following information originates from *Acetamiprid\_RAR\_05\_Volume 3CA B-3\_2015-11-27.pdf* and *Deltamethrin\_RAR\_05\_Volume 3CA B-3\_2018-02-20.pdf*

Table 2. Properties of acetamiprid and deltamethrin

active substance common name	acetamiprid	deltamethrin
<b>active substance chemical name</b>	(E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano-N1-methylacetamidine	(S)- -cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane carboxylate



<b>function</b>	Acetamiprid is neonicotinoid systemic insecticide. It is used as a foliar application to control a range of herbivorous (sucking and biting) insect pests in both outdoor and protected situations. Acetamiprid affects the insect nervous system by acting as an antagonist of the ion channel by binding to the neurotransmitter acetylcholine recognition site. Symptoms of exposure are convulsion with leg tremor and motion of wings, followed by paralysis and death. These symptoms are similar to what is observed after L-nicotine administration. Acetamiprid has translaminar activity with contact and stomach action on herbivorous insect pests. It is an agonist of the nicotinic acetylcholine receptor, affecting the synapses in the insect central nervous system. Acetamiprid belongs to the neonicotinoid insecticides and is classified under IRAC group 4A. Neurotransmission through a nicotinic acetylcholine receptor (nAChR) is initiated from the binding of the neurotransmitter acetylcholine (ACh) to the ACh recognition site on the $\alpha$ -sub-unit, activation of its ion channel, followed by the influx of sodium ions. Acetamiprid works as an antagonist of the ion channel by binding to the ACh recognition site. It is not affected by the acetylcholinesterase which degrades the natural neurotransmitter ACh. Acetamiprid does not readily penetrate the cuticle and is therefore more active on ingestion by sucking hemipterian insects. Acetamiprid is not ionised inside the insect but when transferred into the central nervous system, it is ionised and interacts strongly with nAChR.	Pyrethroid insecticides such as deltamethrin affect both the peripheral and central nervous systems of pest insects. Upon binding to voltage-gated sodium channels they initially stimulate nerve cells to produce repetitive discharges and eventually cause paralysis. Voltage-gated sodium are essential for the initiation and propagation of action potentials in the nervous system and other excitable cells. Insect sodium channels consists of four homologous membrane domains, each having six transmembrane spanning segments connected by intracellular and extracellular loops. After binding of deltamethrin (and pyrethroids in general) to the open stage of the sodium channels, they remain open as the insecticide impedes channel closing either by inactivation or deactivation, and the sodium channels retain the ability to conduct sodium ions, resulting in abnormal hyperexcitability. This pyrethroid-specific mode of action is phenotypically expressed as a knock-down of the pest insect. Deltamethrin and all other pyrethroids are listed as group 3A insecticides in the IRAC mode of action classification scheme, because they are supposed to be cross-resistant to each other particularly in cases of target-site mutations affecting their binding site.
<b>mode of action</b>	Nicotinic acetylcholine receptor (nAChR) competitive modulators (4)	Sodium channel modulators (3)
<b>application</b>	in autumn: <b>winter oilseed rape</b> BBCH 10-21 in winter oilseed rape, and in spring: <b>winter oilseed rape, winter wheat, winter triticale, sugar beet:</b> BBCH 30-70 in winter oilseed rape, BBCH 65-76 in winter wheat, BBCH 49-77 in winter triticale, BBCH 12-19 in sugar beet.	

### 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

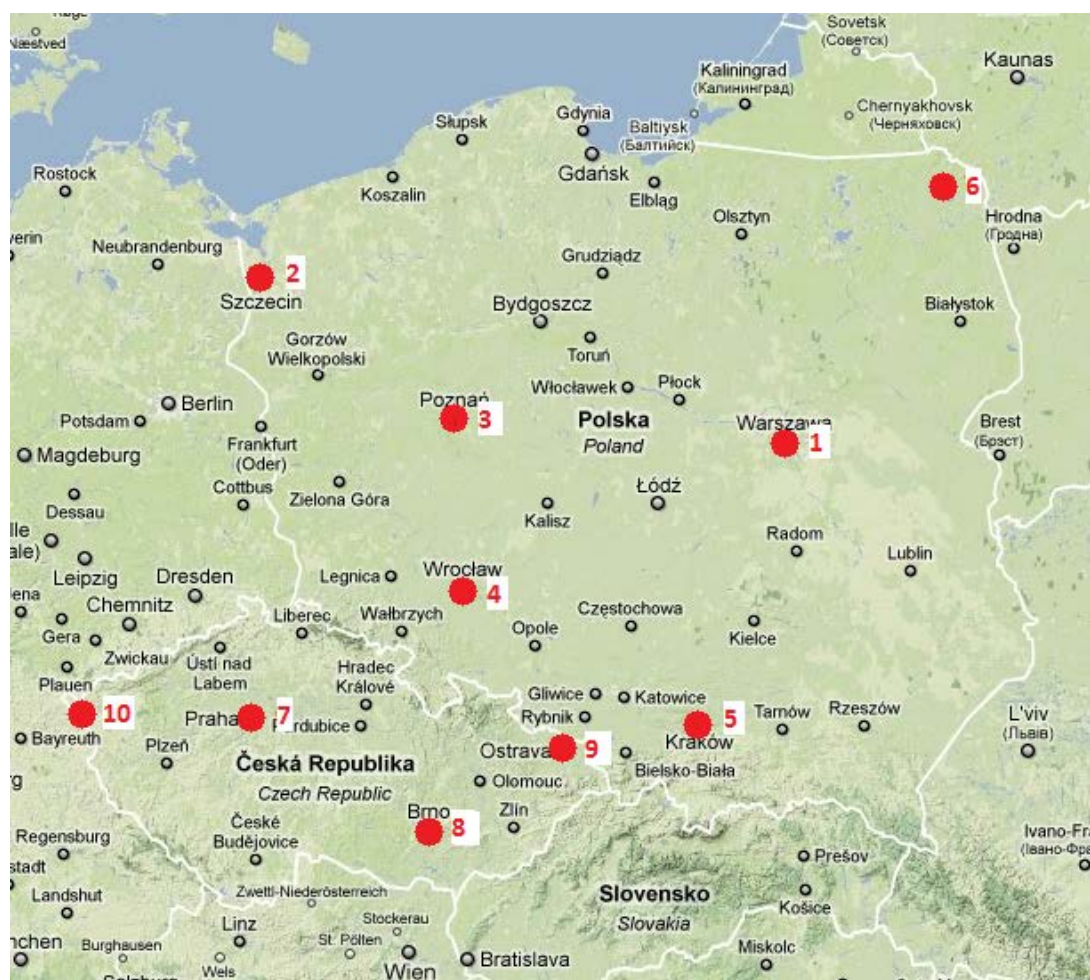


Table 3. Parameters of climate stations

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

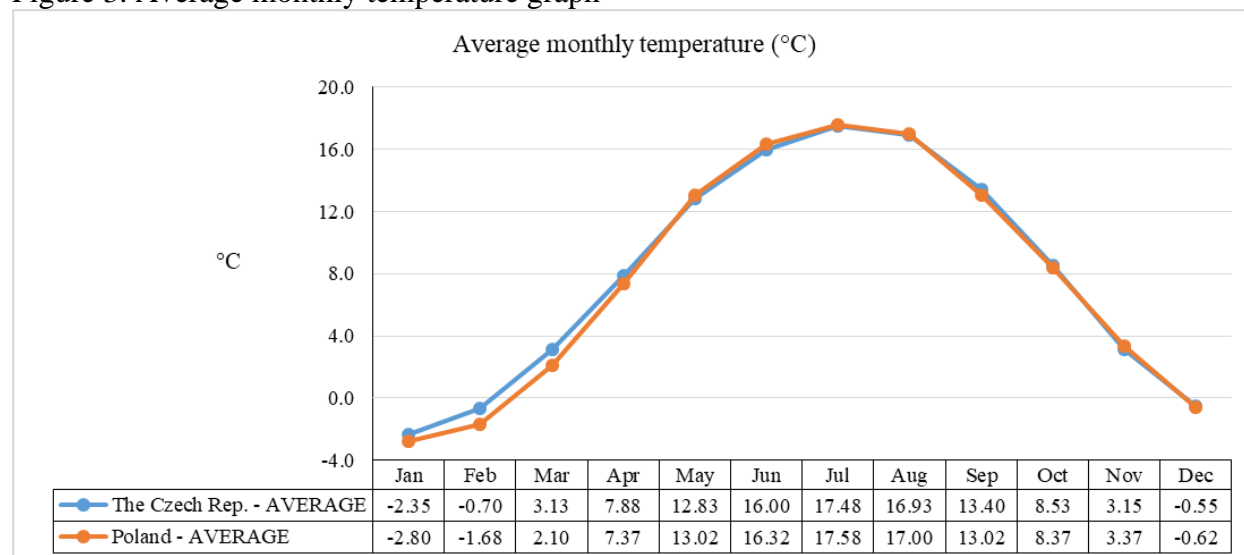
Table 4. Average monthly temperature data

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



importance to the application of product CHR/I/ADEL 280 SC is spring and autumn. In the months of April through July and of August through October there are a very close correlations between average temperatures in Poland and in the Czech Republic.

### 3.2 Average maximum monthly temperature

Table 5. Average maximum monthly temperature data

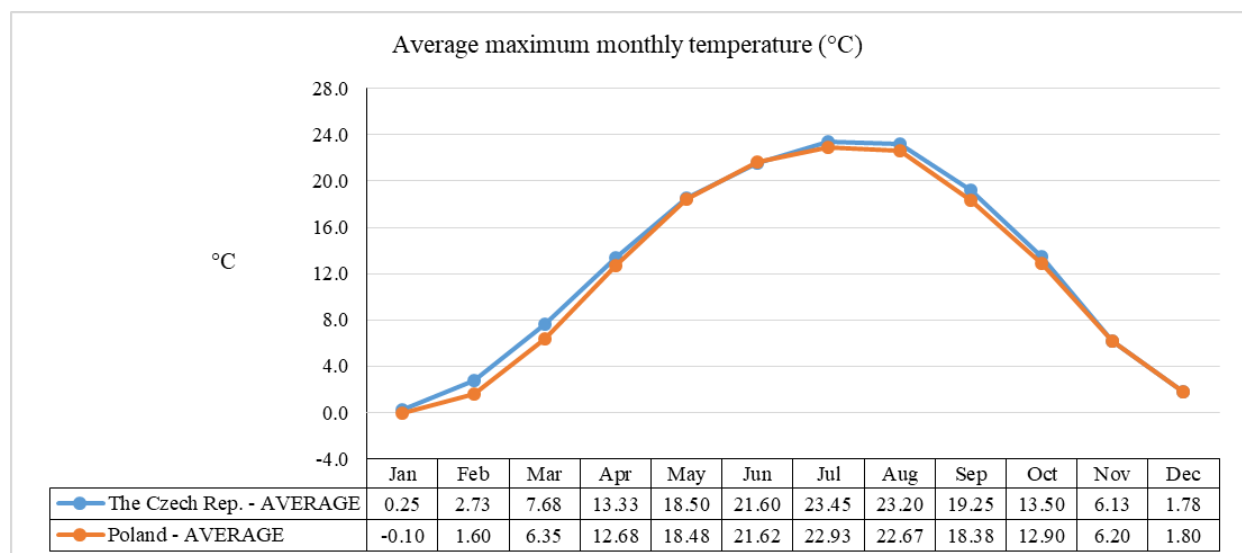
Location	Average maximum monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	0.0	2.3	7.0	12.2	17.4	20.6	22.4	22.2	18.5	12.8	5.2	1.3

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: Wroclaw	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



that maximum temperature in Poland and in the Czech Republic is very similar. In the spring and autumn months that are crucial to the application of product CHR/I/ADEL 280 SC average maximum temperature in both countries differs by no more than 0.65°C in April, 0.02°C in May and June, 0.52 °C in July and August and in autumn: 0.6°C in October.

### 3.3 Average minimum monthly temperatures

Table 6. Average minimum monthly temperature data

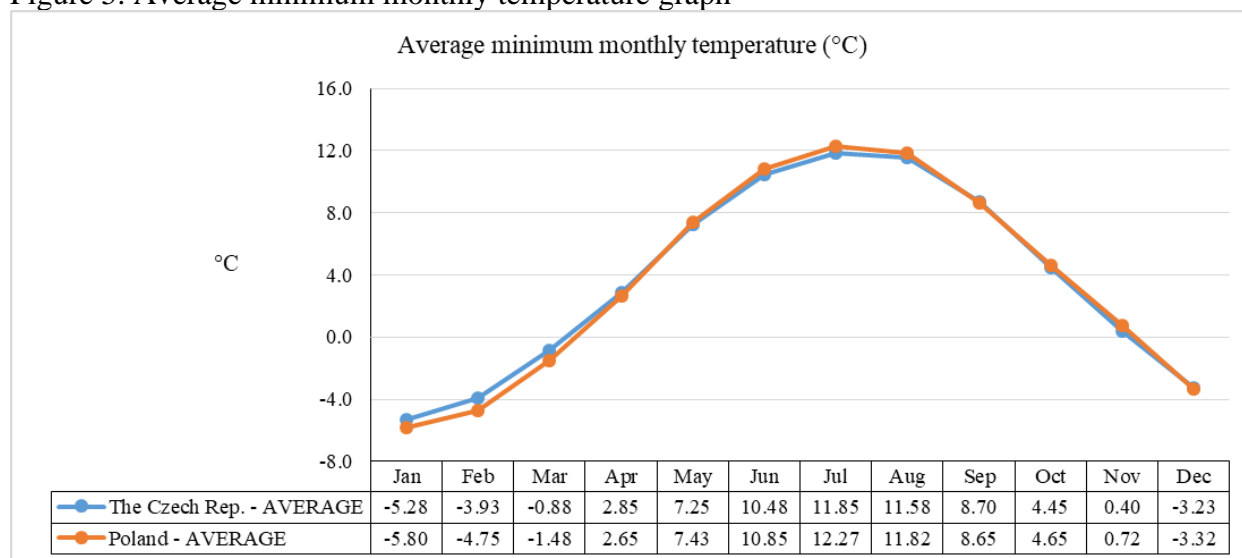
Location	Average minimum monthly temperature (°C)											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The Czech Rep.: Cheb	-5.0	-4.1	-1.2	2.1	6.3	9.6	11.0	10.6	8.0	4.1	0.0	-3.3
The Czech Rep.: Prague	-5.3	-4.2	-1.3	2.4	7.1	10.4	11.8	11.5	8.6	4.0	-0.2	-3.4
The Czech Rep.: Brno	-5.2	-3.3	-0.2	3.9	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



same pattern, therefore, it is comparable. The table and graph above show that minimum monthly 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/I/ADEL 280 SC is spring and autumn. In the months of April through July and of August through October there are a very close correlations between average temperatures in Poland and in the Czech Republic.

### 3.3 Average monthly precipitation sum

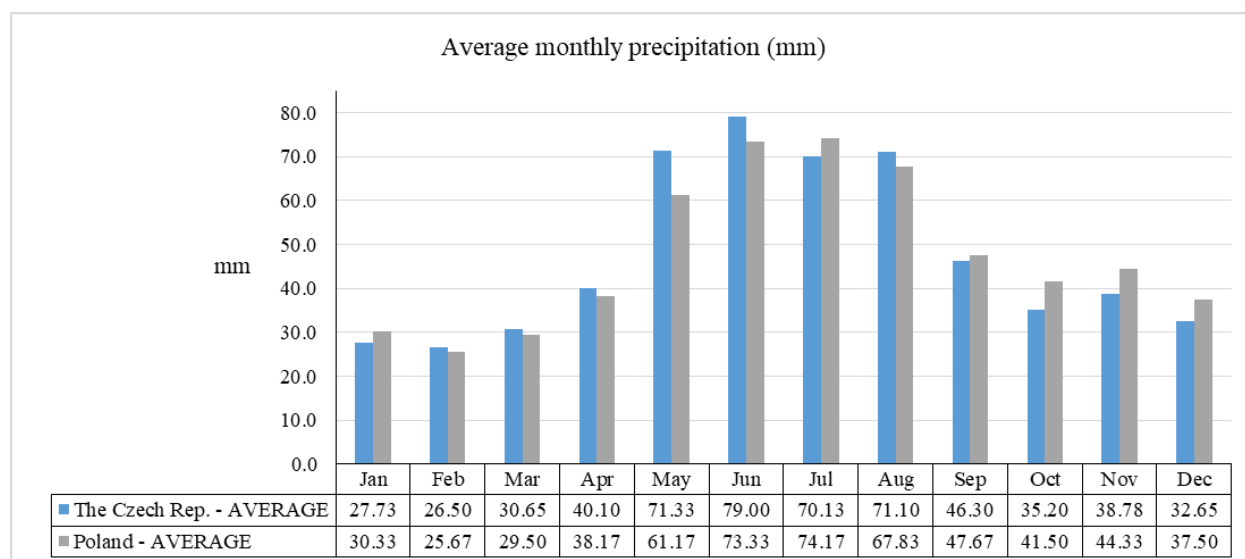
Table 7. Average monthly precipitation sum data

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	22.0	21.0	26.0	33.0	58.0	71.0	69.0	62.0	43.0	37.0	41.0	32.0
Poland: Poznan	30.0	24.0	27.0	36.0	53.0	60.0	69.0	57.0	43.0	39.0	39.0	38.0
Poland: Wroclaw	28.0	26.0	26.0	39.0	64.0	80.0	84.0	78.0	48.0	40.0	43.0	34.0
Poland: Krakow	34.0	32.0	34.0	48.0	83.0	97.0	85.0	87.0	54.0	46.0	45.0	41.0
Poland: Szczecin	36.0	27.0	32.0	38.0	52.0	57.0	61.0	55.0	44.0	38.0	46.0	41.0
Poland: Suwalki	32.0	24.0	32.0	35.0	57.0	75.0	77.0	68.0	54.0	49.0	52.0	39.0
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



#### 4. Soil conditions

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

As has been mentioned above in Table 2, acetamiprid and deltamethrin 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 1<sup>th</sup> till August 25<sup>th</sup>). In the Czech Republic term of sowing of winter wheat is similar – the optimum sowing time is August 10<sup>th</sup> till August 31<sup>th</sup>.

##### 5.2. Winter oilseed rape growth and development

Figure 7. Phenological crop calendar for winter oilseed rape in Poland

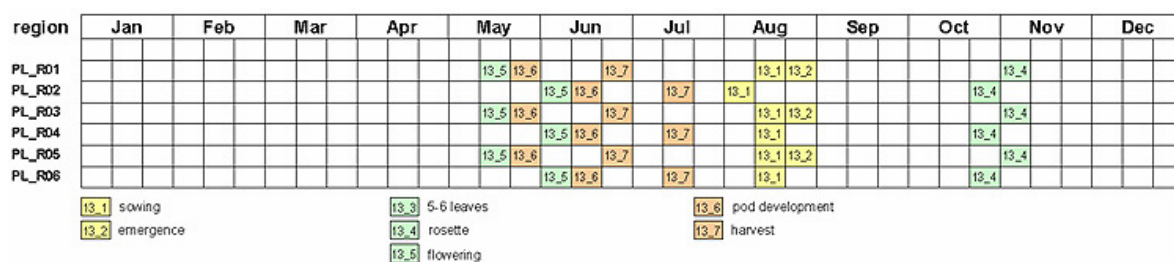
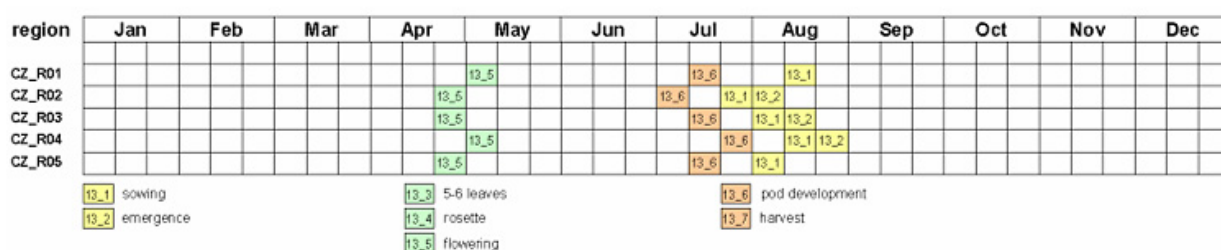


Figure 8. Phenological crop calendar for winter oilseed rape in the Czech Republic



### 5.3. Winter wheat sowing timing

According to the MOCA Study carried out by The MARS STAT Action in Poland sowing of winter wheat takes place in the second half of September (depending on the region term of sowing ranges from September 15<sup>th</sup> till October 5<sup>th</sup>). In the Czech Republic term of sowing of winter wheat is similar – the optimum sowing time is September 15<sup>th</sup> till October 15<sup>th</sup>.

Winter triticale sowing timing and development is very similar to winter wheat, so development of winter wheat can be use to show development of this two cereals.

### 5.4. Winter wheat growth and development

Figure 9. Phenological crop calendar for winter wheat in Poland

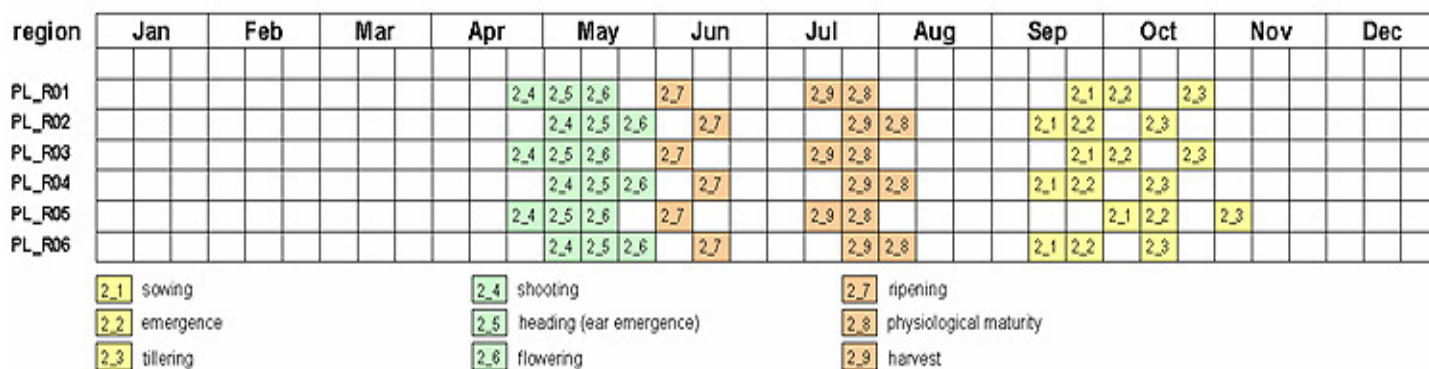
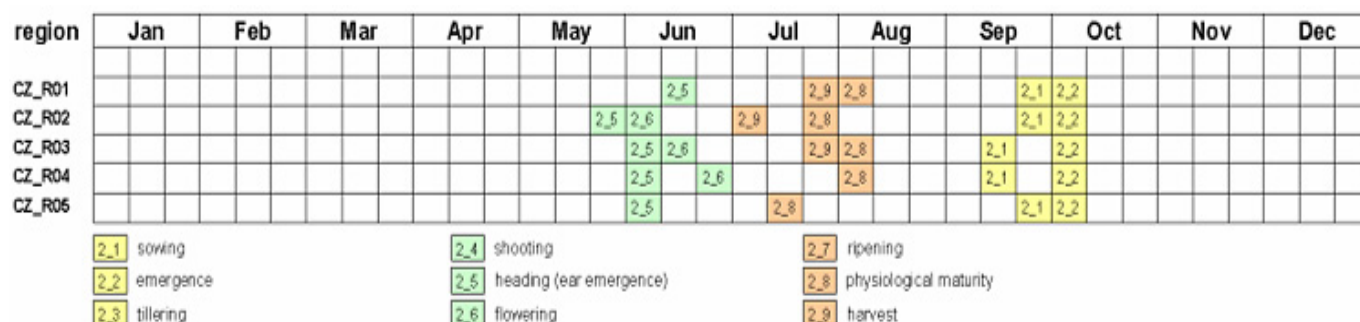




Figure 10. Phenological crop calendar for winter wheat in the Czech Republic



The data tables are incomplete with respect to tillering and shooting phases in the Czech Republic. It is so, because for financial reasons complete phenological data from the Czech Hydrometeorological Institute was not available to the authors of the MOCA Study. However, the distribution of the other available phenological phases allows for the assumption that the missing data is also comparable. In both countries climatic conditions are comparable so the development of winter wheat follows a similar pattern. 4 true leaves to middle of tillering starts in September and continues in October.

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

## 5.5. 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 1<sup>st</sup> till April 30<sup>th</sup>). In the Czech Republic term of sowing of winter wheat is similar – the optimum sowing time is March 15<sup>th</sup> till April 25<sup>th</sup>.

## 5.6. Sugar beet growth and development

Figure 11. Phenological crop calendar for sugar beet in Poland

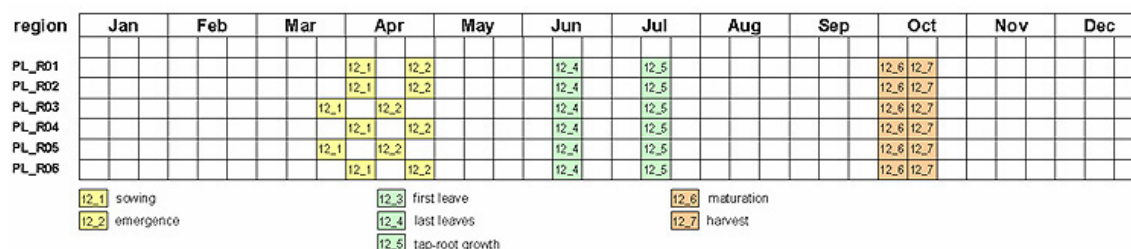


Figure 12. Phenological crop calendar for sugar beet in the Czech Republic

region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CZ_R01												
CZ_R02				12_1 12_2 12_3		12_4				12_6 12_7		
CZ_R03				12_2 12_1		12_4				12_6		
CZ_R04												
CZ_R05				12_1	12_2 12_3	12_4				12_6		

12_1	sowing	12_3	first leave	12_6	maturation
12_2	emergence	12_4	last leaves	12_7	harvest
		12_5	tap-root growth		

## 5.7. Target insects in Poland

### 5.7.1. Winter oilseed rape

According to MOCA Study and Walczak et al. (2013) (*Evaluation of damage to main crops caused by the most important agrophages in Poland*, Prog. Plant Prot./Post. Ochr. Roślin 53 (4): 856-877), *Meligethes aeneus*, *Ceutorhynchus pallidactylus*, *Ceutorhynchus napi* and *Dasyneura brassicae* are the most important oilseed rape pests in Poland. Moreover, Walczak et al. (2013) reports that the *Ceutorhynchus assimilis* is characterized by the same high harmfulness in rape as *Ceutorhynchus pallidactylus* and *Ceutorhynchus napi*. In 2012, plant damage caused by pests ranged from 3.1 % to 8.9 %.

### 5.7.2. Cereals

According to Walczak et al. (2013) (*Evaluation of damage to main crops caused by the most important agrophages in Poland*, Prog. Plant Prot./Post. Ochr. Roślin 53 (4): 856-877), *Oulema* sp., *Rhopalosiphum padi*, *Sitobion avenae* and *Haplodiplosis equestris* are the most harmful in cereals in Poland. In 2012, plant damage caused by pests ranged from 1.5 % to 7.8 %.

### 5.7.3. Sugar beet

According to MOCA Study and Walczak et al. (2013) (*Evaluation of damage to main crops caused by the most important agrophages in Poland*, Prog. Plant Prot./Post. Ochr. Roślin 53 (4): 856-877), the most important sugar beet pests in Poland are *Pegomyia hyoscyami* and *Aphis fabae*. In 2012, plant damage caused by pests ranged from 5.8 % to 8.9 %.

## 5.8. Target insects in Czech Republic

### 5.8.1. Winter oilseed rape

According to MOCA Study, from emergence to the rosette stage following pests can produce locally significant damage: *Phyllotreta* sp., *Ceutorrhynchus picipitarsis* and *Ceutorrhynchus plerostigma*. Other pests occur only sporadically. *Ceutorrhynchus napi* attacks rape in stage of stem elongation and is capable to cause 12% of yield reduction. Insecticide protection is done according signalization. *Meligethes aeneus* is regular pest of winter rape and causes bud and flower shedding and damage is much higher on crops which has been damaged by lack of water, nutrients or *Ceutorrhynchus* sp.

### 5.8.2. Cereals

According to MOCA Study, the most important cereal pests in the Czech Republic are *Aphids*, *Lema* sp. and *Haplodiplosis equestris*.

### 5.8.3. Sugar beet

*Atomaria linearis* is the pest attacking emerging beet plants and it feeds on germs, cotyledons and roots which causes plant to die out *Agroites* sp. bite out roots and feed on beet base. *Chaetocnema* sp. and *Pegomia betae* are feeding on leaves in later stages of crop development. During whole vegetation season sugar beet is threatened by *Aphida* sp. that are vectors of beet mild yellowing disease, by *Heterodera schachtii* and *Erysiphe betae*.

### 5.9. Insects controlled by acetamiprid and deltamethrin

The following table lists insects that were included in efficacy studies of product CHR/I/ADEL 280 SC. These insects were present in experimental plots and their sensitivity depended on the dose of the product applied.

Table 8. Insects and their sensitivity to CHR/I/ADEL 280 SC

POLAND 2019, 2020, 2021

The following table shows the average efficacy of insects control in winter oilseed rape (in autumn application):

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	56.91	L
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	90.85	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	59.95	L
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	76.42	M
CHR/I/ADEL 280 SC 0.08 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	63.01	M
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	93.33	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	74.80	M
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	84.80	E
CHR/I/ADEL 280 SC 0.08 L/ha Asystent+ 0.10 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	72.12	M
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	95.20	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	81.00	E
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	88.78	E
CHR/I/ADEL 280 SC 0.10 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	72.52	M
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	98.70	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	79.23	M
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	89.44	E
CHR/I/ADEL 280 SC 0.12 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	80.35	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	99.28	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	84.25	E
	MYZU-	<i>Myzus persicae/ Brevi-</i>	3-8 DA-A	larva	92.03	E

	PE/BRVCBR	<i>coryne brassicae</i>				
CHR/I/ADEL 280 SC 0.14 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	84.90	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	98.95	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	87.50	E
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	93.66	E
CHR/I/ADEL 280 SC 0.16 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	89.57	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	97.65	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	87.25	E
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	92.97	E
Los Ovados 200 SE 0.25 L/ha Asystent+ 0.10 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	59.40	L
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	97.13	E
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	86.00	E
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	92.09	E
Decis Mega 50 EW 0.15 L/ha	ATAL-CO/ATALAG	<i>Athalia rosae/Athalia</i>	1-9 DA-A	larva	92.93	E
	BRVCBR	<i>Brevicoryne brassicae</i>	3-8 DA-A	larva	41.15	L
	MYZUPE	<i>Myzus persicae</i>	3-8 DA-A	larva	59.60	L
	MYZU-PE/BRVCBR	<i>Myzus persicae/ Brevicoryne brassicae</i>	3-8 DA-A	larva	57.79	L

The following table shows the average efficacy of insects control in winter oilseed rape (in spring application):

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	39.34	L
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	47.26	L
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	64.69	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	55.24	L
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	38.00	L
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	58.84	L
CHR/I/ADEL 280 SC 0.08 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	53.70	L
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	57.18	L
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	69.31	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	65.71	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	82.00	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	67.86	M
CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	66.69	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	64.61	M

L/ha	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	73.59	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	74.31	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	87.00	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	74.40	M
CHR/I/ADEL 280 SC 0.10 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	57.59	L
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	59.72	L
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	74.81	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	78.76	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	81.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	76.13	M
CHR/I/ADEL 280 SC 0.12 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	65.86	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	66.06	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	79.83	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	81.76	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	86.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	78.04	M
CHR/I/ADEL 280 SC 0.14 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	71.32	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	72.16	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	83.21	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	83.66	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	93.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	78.96	M
CHR/I/ADEL 280 SC 0.16 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	73.35	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	74.33	M
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	84.85	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	82.76	E
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	91.00	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	84.67	E
Los Ovados 200 SE 0.25 L/ha + Asystent+ 0.10 L/ha	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	76.93	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	72.01	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	74.00	M
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	80.34	E
Decis Mega 50 EW 0.15 L/ha	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	78.01	M
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	82.56	E
	MELIAE	<i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>	1-6 DA-A	adult	73.28	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	65.60	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	83.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	65.74	M
Inazuma 130 WG	CEUTQU	<i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>	28-56 DA-A	larva; adult	76.72	M

0.20 kg/ha		<i>syn. C. pallidactylus</i>				
	CEUTNA	<i>Ceutorhynchus napi</i>	34-64 DA-A	larva; adult	74.39	M
	MELIAE	<i>Brassicogethes aeneus syn. Meligethes aeneus</i>	1-6 DA-A	adult	77.50	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	22-28 DA-A	larva; adult	74.94	M
	CEUTPL	<i>Ceutorhynchus assimilis</i>	28 DA-A	egg	92.50	E
	DASYBR	<i>Dasineura brassicae</i>	14-28 DA-A	larva; adult	76.01	M

The following table shows the average efficacy of insects control in winter wheat:

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	71.45	M
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	86.90	E
	MASCAV/METODR/RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	75.85	M
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	56.91	L
CHR/I/ADEL 280 SC 0.08 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	79.45	M
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/METODR/RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	83.56	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	71.24	M
CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	86.67	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/METODR/RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	89.33	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	77.62	M
CHR/I/ADEL 280 SC 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	88.63	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/METODR/RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	90.90	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	81.84	E
CHR/I/ADEL 280 SC 0.12 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	91.70	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/METODR/RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	93.36	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	88.09	E
CHR/I/ADEL	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	94.68	E



280 SC 0.14 L/ha	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	95.74	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	91.98	E
CHR/I/ADEL 280 SC 0.16 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	96.13	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	96.90	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	93.69	E
Decis Mega 50 EW 0.125 L/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	94.21	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	95.37	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	94.55	E
Fastac active 50 ME 0.30 kg/ha	MACSAV	<i>Sitobion avenae</i>	1-9 DA-A	all stages	95.28	E
	METODR	<i>Metopolophium dirhodum</i>	1-8 DA-A	all stages	100.00	E
	RHOPPA	<i>Rhopalosiphum padi</i>	1-8 DA-A	all stages	100.00	E
	MASCAV/ METODR/ RHOPPA	<i>Sitobion avenae/ Metopolophium dirhodum/ Rhopalosiphum padi</i>	1-9 DA-A	all stages	96.22	E
	THRISP	<i>Thrips sp.</i>	1-3 DA-A	adult	94.85	E

The following table shows the average efficacy of insects control in winter triticales:

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	64.26	M
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosiphum padi</i>	2-9 DA-A	adult	68.73	M
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	68.12	M
CHR/I/ADEL 280 SC 0.08 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	77.90	M
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosiphum padi</i>	2-9 DA-A	adult	80.66	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	75.30	M
CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	81.89	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E

	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	84.15	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	79.68	M
CHR/I/ADEL 280 SC 0.10 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	84.31	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	86.28	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	83.63	E
CHR/I/ADEL 280 SC 0.12 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	87.36	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	88.94	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	86.47	E
CHR/I/ADEL 280 SC 0.14 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	89.29	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	90.63	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	91.63	E
CHR/I/ADEL 280 SC 0.16 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	91.24	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	92.34	E
	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	94.07	E
Decis Mega 50 EW 0.125 L/ha	MACSAV	<i>Sitobion avenae</i>	2-9 DA-A	adult	88.17	E
	RHOPPA	<i>Rhopalosiphum padi</i>	2-9 DA-A	adult	100.00	E
	MASCAV/ RHOPPA	<i>Sitobion avenae/ Rhopalosi- phum padi</i>	2-9 DA-A	adult	90.14	E
Fastac active 50 ME 0.30 kg/ha	THRISP	<i>Thrips sp.</i>	2-8 DA-A	adult	95.90	E

The following table shows the average efficacy of insects control in sugar beet:

Product code (L, kg/ha)	EPPO code	Scientific name	DA-A	Pest stage	Average	Efficacy
CHR/I/ADEL 280 SC 0.06 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	62.34	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	68.32	L
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	30.80	L
CHR/I/ADEL 280 SC 0.08 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	72.48	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	83.88	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	46.60	L



CHR/I/ADEL 280 SC 0.08 L/ha + Asystent+ 0.10 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	77.37	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	85.64	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	43.65	L
CHR/I/ADEL 280 SC 0.10 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	77.88	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	87.24	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	50.70	L
CHR/I/ADEL 280 SC 0.12 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	79.37	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	87.08	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	54.30	L
CHR/I/ADEL 280 SC 0.14 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	82.16	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	89.61	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	61.50	M
CHR/I/ADEL 280 SC 0.16 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	85.13	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	90.85	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	57.75	L
Decis Mega 50 EW 0.20 L/ha	APHISP	<i>Aphis sp./Aphis fabae</i>	1-9 DA-A	adult	69.95	M
	PEGOHY	<i>Pegomya hyoscyami</i>	7-21 DA-A	larva	92.72	E
	PEGOHY	<i>Pegomya hyoscyami</i>	7 DA-A	egg	33.00	L

## 6. 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 counties. This has influence on the agricultural practice in these countries and on the development of cultivated crops. Winter oilseed rape, winter wheat, winter triticale 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 pest in both countries.

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 of a spring and autumn, foliar applied, insecticide CHR/I/ADEL 280 SC 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)
41/2020	Sośnicowice, Poland winter oilseed rape/Visby F N	Institute of Plant Protection - National Research Institute, Sosnowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Poland	EPPO PP 1/239(2)PP 1/18(3)  20 m <sup>2</sup>	BBCH 14-15	n/a	1	300
A.T/2019/085/RZO	Wronczyn, Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	EPPO PP 1/239(2)PP 1/18(3)  2.5 m <sup>2</sup> x 7.25 m <sup>2</sup> = 18.125 m <sup>2</sup>	BBCH 14-16	n/a	1	200
A.T/2019/086/RZO	Wronczyn, Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	EPPO PP 1/239(2)PP 1/18(3)  2.5 m <sup>2</sup> x 7.25 m <sup>2</sup> = 18.125 m <sup>2</sup>	BBCH 17-21	n/a	1	300
AI/19/RO/27/ZI/ADEL	Złotniki, Poland winter oilseed rape/Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28, 60-637 Poznań, Poland	EPPO PP 1/239(2)PP 1/18(3)  2.5 m <sup>2</sup> x 10.0 m <sup>2</sup> = 25.0 m <sup>2</sup>	BBCH 15-17	n/a	2	200
A.T/2020/027/RZO	Brzeźno k. Gołańczy, Poland winter oilseed rape/ Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	EPPO PP 1/239(2)PP 1/18(3)  5.0 m <sup>2</sup> x 6.0 m <sup>2</sup> = 30.0 m <sup>2</sup>	BBCH 50-55	n/a	1	300
A.T/2020/029/RZO	Wronczyn, Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	EPPO PP 1/239(2)PP 1/18(3)  5.0 m <sup>2</sup> x 6.0 m <sup>2</sup> = 30.0 m <sup>2</sup>	BBCH 50-60	n/a	1	300
A.T/2020/030/RZO	Duża Cerkwica, Poland winter oilseed rape/ Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	EPPO PP 1/239(2)PP 1/18(3)  5.0 m <sup>2</sup> x 5.5 m <sup>2</sup> = 27.5 m <sup>2</sup>	BBCH 55-59	n/a	1	300
A.T/2020/031/RZO	Wronczyn, Poland winter oilseed rape/ Dominator	A.T Sp. z o.o.	EPPO PP 1/239(2)PP 1/18(3)	BBCH 60-65	n/a	1	300

	F N	ul. Przemysłowa 3 88-300 Mogilno, Poland	5.0 m <sup>2</sup> x 6.0 m <sup>2</sup> = 30.0 m <sup>2</sup>				
A.T/2020/032/RZO	Trzeciewnica, Polnad winter oilseed rape/ Kuga F N	A.T Sp. z o.o.  ul. Przemysłowa 3 88-300 Mogilno, Poland	EPPO PP 1/239(2)PP 1/18(3)  5.0 m <sup>2</sup> x 5.5 m <sup>2</sup> = 27.5 m <sup>2</sup>	BBCH 65-67	n/a	1	300
A.T/2020/085/RZO	Trzeciewnica, Polnad winter oilseed rape/ Kuga F N	A.T Sp. z o.o.  ul. Przemysłowa 3 88-300 Mogilno, Poland	EPPO PP 1/239(2)PP 1/18(3)  5.0 m <sup>2</sup> x 5.5 m <sup>2</sup> = 27.5 m <sup>2</sup>	BBCH 67-70	n/a	1	300
AI/20/RO/7/NW/ADEL	Niewolno, Poland  winter oilseed rape/Harry F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń ul. Wojska Polskie- go 28, 60-637 Poznań, Poland	EPPO PP 1/239(2)PP 1/18(3)  2.0 m <sup>2</sup> x 10.0 m <sup>2</sup> = 20.0 m <sup>2</sup>	BBCH 30-34	n/a	1	250
SRPL20-413-336FE	Teresin, Poland winter wheat/ Kilimanjaro F N	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 8.0 m <sup>2</sup> = 24.0 m <sup>2</sup>	BBCH 71-75	n/a	1	300
SRPL20-414-336FE	Samborowao, Poland winter wheat/ Ostroga F N	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 7.0 m <sup>2</sup> = 21.0 m <sup>2</sup>	BBCH 75-76	n/a	1	300
SRPL20-416-336FE	Tonowo, Poland winter wheat/ Arkadia F N	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 7.0 m <sup>2</sup> = 21.0 m <sup>2</sup>	BBCH 73	n/a	1	300
SRPL20-417-336FE	Murczyn, Poland winter wheat/ Honda F N	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 7.0 m <sup>2</sup> = 21.0 m <sup>2</sup>	BBCH 75	n/a	1	300
SRPL20-415-336FE	Jankowice Wiel- kie, Poland winter triticale/ Fredro F N	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 9.0 m <sup>2</sup> = 27.0 m <sup>2</sup>	BBCH 73-77	n/a	1	300
SRPL20-418-336FE	Owczary, Poland winter triticale/ Trapero F N	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 7.0 m <sup>2</sup> = 21.0 m <sup>2</sup>	BBCH 71-75	n/a	1	300

AI/20/PszO/24/Gr/02	Gorzyń, Poland winter triticale/ Tadeus F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń ul. Wojska Polskie- go 28, 60-637 Poznań, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 7.0 m <sup>2</sup> = 21.0 m <sup>2</sup>	BBCH 73-75	n/a	1	200
SRPL20-419-336FE	Turze, Poland sugar beet/ Sobie- ski F N	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 10.0 m <sup>2</sup> = 30.0 m <sup>2</sup>	BBCH 12-13	n/a	1	300
SRPL20-420-336FE	Borzęcin, Poland sugar beet/ Jagien- ka F N	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 10.0 m <sup>2</sup> = 30.0 m <sup>2</sup>	BBCH 13-14	n/a	1	300
SRPL20-421-336FE	Pogorzela, Poland sugar beet/ Kujavia F N	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.0 m <sup>2</sup> x 10.0 m <sup>2</sup> = 30.0 m <sup>2</sup>	BBCH 13-15	n/a	1	300
AI/20/Bc/24/Lu/01	Lubiń, Poland sugar beet/ Krajan F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń ul. Wojska Polskie- go 28, 60-637 Poznań, Poland	EPPO PP 1/239(2)PP 1/18(3)  3.6 m <sup>2</sup> x 8.0 m <sup>2</sup> = 28.8 m <sup>2</sup>	BBCH 14-15	n/a	1	250
A.T/2020/116/RZO	Batorowo/ Poland winter oilseed rape/ ES Cesario F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/233(1)  2.5 m x 8 m = 20 m <sup>2</sup>	BBCH 14-17	n/a	1	200
A.T/2020/117/RZO	Duża Cerkwica/ Poland winter oilseed rape/ Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/233(1)  4 m x 5.5 m = 22.0 m <sup>2</sup>	BBCH 14-18	n/a	1	200
A.T/2020/118/RZO	Stare Młodo- chowo/ Poland winter oilseed rape/ Hamilton F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/233(1)  2.5 m x 8 m = 20 m <sup>2</sup>	BBCH 12-14	n/a	1	200
A.T/2020/119/RZO	Lusówko/ Poland winter oilseed rape/ Addition F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2), PP 1/229(1), PP 1/230(1), PP 1/20(3)  2.5 m x 8 m = 20 m <sup>2</sup>	BBCH 14-17	n/a	1	300
A.T/2020/120/RZO	Suchary/ Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2), PP 1/229(1), PP 1/230(1), PP 1/20(3)  2.5 m x 6.0 m =	BBCH 14-17	n/a	1	300

			15.0 m <sup>2</sup>				
A.T/2020/121/RZO	Stare Młodowo/ Poland winter oilseed rape/ Hamilton F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2), PP 1/229(1), PP 1/230(1), PP 1/20(3)  2.5 m x 8 m = 20 m <sup>2</sup>	BBCH 10-12	n/a	1	300
AI/20/RO/36/Pr/1	Przybroda/ Poland winter oilseed rape/ Harry F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	PP 1/233(1)  1.5 m x 12.0 m = 18.0 m <sup>2</sup>	BBCH 12-16	n/a	1	200
AI/20/RO/36/ZI/2	Złotniki/ Poland winter oilseed rape/ Graf F1 F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/20(3)  2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 12-13	n/a	1	200
AI/20/RO/36/Br/3	Brody/ Poland winter oilseed rape/ Berny F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/20(3)  2.5 m x 10.0 m = 25.0 m <sup>2</sup>	BBCH 14-15	n/a	1	200
4I/2021	Sosnicowice/ Poland winter oilseed rape/ Alibaba F N	Institute of Plant Protection - Nation- al Research Insti- tute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowi- ce, Poland	EPPO PP 1/233(1)  1.4 m x 10.72 m = 15.008 m <sup>2</sup>	BBCH 14-15	n/a	1	300
5I/2021	Lany Wielkie / Poland winter oilseed rape/ Visby F N	Institute of Plant Protection - Nation- al Research Insti- tute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowi- ce, Poland	EPPO PP 1/233(1)  1.4 m x 4.29 m = 20.006 m <sup>2</sup>	BBCH 14-15	n/a	1	300
6I/2021	Lany Wielkie / Poland winter oilseed rape/ Visby F N	Institute of Plant Protection - Nation- al Research Insti- tute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowi- ce, Poland	EPPO PP 1/20(3)  1.4 m x 17.86 m = 25.004 m <sup>2</sup>	BBCH 17-18	n/a	1	300
A.T/2021/001/RZO	Modrze/ Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1)  5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 30-35	n/a	1	300
A.T/2021/002/RZO	Czesławice/ Po- land winter oilseed rape/ Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1)  5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 32-35	n/a	1	300
A.T/2021/003/RZO	Wilkowo/ Poland winter oilseed rape/ Umberto F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1)  5.0 m x 5.0 m = 25.0 m <sup>2</sup>	BBCH 33-37	n/a	1	300

A.T/2021/004/RZO	Szapsk/ Poland winter oilseed rape/ KWS Ric- cardo F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1) 5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 30-35	n/a	1	300
A.T/2021/005/RZO	Szyski-Folwark/ Poland winter oilseed rape/ Polana F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1) 5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 35-39	n/a	1	300
A.T/2021/006/RZO	Modrze/ Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1) 5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 39-50	n/a	1	300
A.T/2021/007/RZO	Jęczniki Wielkie/ Poland winter oilseed rape/ LG Aviron F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1) 5.0 m x 5.0 m = 25.0 m <sup>2</sup>	BBCH 30-35	n/a	1	300
A.T/2021/008/RZO	Szapsk/ Poland winter oilseed rape/ KWS Ric- cardo F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/219(1) 5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 35-39	n/a	1	300
A.T/2021/009/RZO	Jęczniki Wielkie/ Poland winter oilseed rape/ LG Aviron F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/178(3) 5.0 m x 5.0 m = 25.0 m <sup>2</sup>	BBCH 51-55	n/a	1	300
A.T/2021/010/RZO	Szyski-Folwark/ Poland winter oilseed rape/ Polana F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/178(3) 5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 55-59	n/a	1	300
A.T/2021/064/RZO	Jęczniki Wielkie/ Poland winter oilseed rape/ Umberto F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/107(3) 5.0 m x 5.0 m = 25.0 m <sup>2</sup>	BBCH 63-67	n/a	1	300
A.T/2021/065/RZO	Batorowo/ Poland winter oilseed rape/ Dominator F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/107(3) 5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 65-67	n/a	1	300
A.T/2021/066/RZO	Kakulin/ Poland winter oilseed rape/ LG Aviron F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/220(1) 5.0 m x 6.0 m = 30.0 m <sup>2</sup>	BBCH 65-69	n/a	1	300
AI/21/RO/4/Pr/01	Przybroda/ Poland winter oilseed rape/ Harry F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/219(1) 1.5 m x 12.0 m = 18.0 m <sup>2</sup>	BBCH 35	n/a	1	300
AI/21/RO/4/Zi/02	Złotniki/ Poland winter oilseed rape/ Graf F1 F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/219(1) 2.05 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 30	n/a	1	250

AI/21/RO/4/Br/03	Brody/ Poland winter oilseed rape/ Berny F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/219(1)  2.5 m x 10.0 m = 25.0 m <sup>2</sup>	BBCH 39	n/a	1	230
AI/21/RO/14/Ma/ADEL	Machary/ Poland winter oilseed rape/ Harry F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/107(3), PP 1/220(1)  1.5 m x 12.0 m = 18.0 m <sup>2</sup>	BBCH 61-69	n/a	1	200
CH-WR-I-ADEL-2021-01	Waliszew/ Poland winter oilseed rape/ Kuga Fl F N	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia	EPPO PP 1/178(3)  2.5 m x 10.0 m = 25.0 m <sup>2</sup>	BBCH 55	n/a	1	200
CH-WR-I-ADEL-2021-02	Gabin/ Poland winter oilseed rape/ Kuga Fl F N	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia	EPPO PP 1/178(3)  2.5 m x 10.0 m = 25.0 m <sup>2</sup>	BBCH 55	n/a	1	200
CH-WR-I-ADEL-2021-03	Gabin/ Poland winter oilseed rape/ Kuga Fl F N	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia	EPPO PP 1/107(3), PP 1/220(1)  2.5 m x 10.0 m = 25.0 m <sup>2</sup>	BBCH 65	n/a	1	200
CH-WR-I-ADEL-2021-04	Gabin/ Poland winter oilseed rape/ Kuga Fl F N	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernozia	EPPO PP 1/107(3), PP 1/220(1)  2.5 m x 10.0 m = 25.0 m <sup>2</sup>	BBCH 65-67	n/a	1	200
SRPL21-401-336FE	Tomarynki/ Poland winter oilseed rape/ DK Exquisite F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP 1/178(3)  3.0 m x 8.0 m = 24.0 m <sup>2</sup>	BBCH 51-53	n/a	1	300
SRPL21-402-336FE	Osówka/ Poland winter oilseed rape/ Bazyl F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP 1/178(3)  2.5 m x 10.0 m = 25.0 m <sup>2</sup>	BBCH 57-59	n/a	1	300
9I/2021	Lany Wielkie/ Poland winter oilseed rape/ Architect  F N	Institute of Plant Protection - Nation- al Research Insti- tute, Sosnowice Branch ul. Gliwicka 29 44-153 Sosnowi- ce, Poland	EPPO PP 1/219(1)  2.8 m x 10.72 m = 30.016 m <sup>2</sup>	BBCH 39-50	n/a	1	300
10I/2021	Lany Wielkie/ Poland winter oilseed rape/Alibaba F N	Institute of Plant Protection - Nation- al Research Insti- tute, Sosnowice Branch ul. Gliwicka 29 44-153 Sosnowi- ce, Poland	EPPO PP 1/219(1)  2.8 m x 14.3 m = 40.04 m <sup>2</sup>	BBCH 39-50	n/a	1	300
11I/2021	Sosnowice/ Poland winter oilseed rape/Birdy F N	Institute of Plant Protection - Nation- al Research Insti- tute, Sosnowice Branch ul. Gliwicka 29	EPPO PP 1/107(3), PP 1/220(1)  1.4 m x 17.86 m = 25.004 m <sup>2</sup>	BBCH 65-67	n/a	1	300

		44-153 Sośnicowice, Poland					
12I/2021	Lany Wielkie/ Poland winter oilseed rape/ Architect F N	Institute of Plant Protection - National Research Institute, Sosnowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Poland	EPPO PP 1/107(3), PP 1/220(1)  1.4 m x 17.86 m = 25.004 m <sup>2</sup>	BBCH 65	n/a	1	300
A.T/2021/088/PO	Batorowo/ Poland winter wheat/ RGT Kilimanjaro F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3), PP 1/237(1)  2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 73-75	n/a	1	300
A.T/2021/089/PO	Nowa Wieś Ujska/ Poland winter wheat/ Euclide F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3), PP 1/237(1)  2.5 m x 6.2 m = 15.5 m <sup>2</sup>	BBCH 65-71	n/a	1	300
A.T/2021/090/PO	Nowy Dwór/ Poland winter wheat/ RGT Bilanz F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3), PP 1/237(1)  2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 69-73	n/a	1	300
A.T/2021/091/PO	Kielbowo/ Poland winter wheat/ Tonnage F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3), PP 1/237(1)  2.5 x 6.0 m = 15.0 m <sup>2</sup>	BBCH 67-69	n/a	1	300
SRPL21-450-336FE	Jankowice Wielkie/ Poland winter wheat/ Asory F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellońska, 85-027 Bydgoszcz, Poland	EPPO PP 1/237(1)  3.0 m x 8.0 m = 24.0 m <sup>2</sup>	BBCH 73-75	n/a	1	300
SRPL21-451-336FE	Gietrzwałd/ Poland winter wheat/ Findus F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellońska, 85-027 Bydgoszcz, Poland	EPPO PP 1/237(1)  3.0 m x 8.0 m = 24.0 m <sup>2</sup>	BBCH 68-71	n/a	1	300
A.T/2021/092/PZO	Modrze/ Poland winter triticale/ Meloman F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3)  2.5 m x 7.0 m = 17.5 m <sup>2</sup>	BBCH 73-77	n/a	1	300
A.T/2021/093/PZO	Nowa Wieś Ujska/ Poland winter triticale/ Lombardo F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3)  2.5 x 6.0 m = 15.0 m <sup>2</sup>	BBCH 69-73	n/a	1	300
A.T/2021/094/PZO	Suchary/ Poland winter triticale/ Orinoko F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3)  2.5 m x 7.0 m = 17.5 m <sup>2</sup>	BBCH 69-73	n/a	1	300
A.T/2021/095/PZO	Studzieniec/ Poland winter triticale/ Meloman F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/20(3)  2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 65-69	n/a	1	300



AI/21/PszO/20/Pr/1	Przybroda/ Poland winter triticale/ Grenado F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/20(3) 2.0 m x 12.0 m = 24.0 m <sup>2</sup>	BBCH 49	n/a	1	200
AI/21/PszO/20/Ra/2	Rataje/ Poland winter triticale/ Porto F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/20(3) 2.0 m x 10.0 m = 20.0 m <sup>2</sup>	BBCH 63	n/a	1	250
SRPL21-452-336FE	Tynwałd/ Poland winter triticale/ Meloman F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP1/237(1) 3.0 m x 7.0 m = 21.0 m <sup>2</sup>	BBCH 65-69	n/a	1	300
SRPL21-453-336FE	Osołka/ Poland winter triticale/ Rotondo F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP1/237(1) 3.0 x 6.0 m = 18.0 m <sup>2</sup>	BBCH 51-55	n/a	1	300
SRPL21-454-336FE	Tonowo/ Poland winter triticale/ Balcanto F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP1/237(1) 3.0 m x 7.0 m = 21.0 m <sup>2</sup>	BBCH 71-73	n/a	1	300
SRPL21-455-336FE	Sulinowo/ Poland winter triticale/ Borowik F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP1/237(1) 3.0 m x 7.0 m = 21.0 m <sup>2</sup>	BBCH 73-75	n/a	1	300 L/ha
SRPL21-456-336FE	Murczyn/ Poland winter triticale/ Rotondo F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP1/237(1) 3.0 m x 7.0 m = 21.0 m <sup>2</sup>	BBCH 71-73	n/a	1	300
SRPL21-457-336FE	Tomaszkowo/ Poland winter triticale/ Rotondo F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	EPPO PP1/237(1) 3.0 m x 7.0 m = 21.0 m <sup>2</sup>	BBCH 61-65	n/a	1	300
A.T/2021/081/BC	Gaj Wielki/ Poland sugar beet/ Tole- ranza KWS F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2) 2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 12-14	n/a	1	300
A.T/2021/082/BC	Żabiczyn/ Poland sugar beet/ Mary- nia F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2) 2.5 m 7.5 m = 17.5 m <sup>2</sup>	BBCH 14-19	n/a	1	300
A.T/2021/083/BC	Jezioro Kosztow- skie/ Poland sugar beet/ Kujavia F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2) 2.5 m 7.5 m = 17.5 m <sup>2</sup>	BBCH 12-14	n/a	1	300
A.T/2021/084/BC	Suchary/ Poland sugar beet/ Kujavia F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2) 2.5 m 7.5 m = 17.5 m <sup>2</sup>	BBCH 17-19	n/a	1	300

A.T/2021/085/BC	Szapsk/ Poland sugar beet/ Smart Latoria KWS F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/228(2) 2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 18-19	n/a	1	300
A.T/2021/086/BC	Trzeciewnica/ Poland sugar beet/ Jantar F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/209(2) 2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 12-16	n/a	1	300
A.T/2021/087/BC	Studzieniec/ Poland sugar beet/ FD Drift F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	EPPO PP 1/209(2) 2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 12-16	n/a	1	300
AI/21/BC/18/Br/1	Brody/ Poland sugar beet/ Lancas- ter F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/209(2) 2.0 m x 10.0 m = 20.0 m <sup>2</sup>	BBCH 13	n/a	1	230
AI/21/BC/18/La/2	Laskowo/ Poland sugar beet/ Gellert F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/209(2) 2.7 m x 8.0 m = 21.6 m <sup>2</sup>	BBCH 12-13	n/a	1	200
AI/21/BC/18/Mr/3	Mrowino/ Poland sugar beet/ Pano- rama F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/209(2) 2.7 m x 8.0 m = 21.6 m <sup>2</sup>	BBCH 13-14	n/a	1	200
AI/21/BC/18/Ko/4	Kokoszczyń/ Poland sugar beet/ Tole- ranza F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/209(2) 2.5 m x 8.0 m = 20.0 m <sup>2</sup>	BBCH 13-14	n/a	1	200
AI/21/BC/18/Zi	Złotnik/ Poland sugar beet/ Jagiel- lon F N	Poznań University of Life Sciences, Research and Edu- cation Center Gorzyń, ul. Wojska Polskiego 28, 60- 637 Poznań	EPPO PP 1/228(2) 1.8 m x 12.0 m = 21.6 m <sup>2</sup>	BBCH 13	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

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				CHR/I/ADEL 280 SC	0.16							
A.T/2019/086/RZO	winter oilseed rape/Dominator	plant, larva	MYZUPE - LARVA 100 BRVCBR - LARVA 100	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							07.11.2019
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							10.11.2019
	MYZUPE	MYZUPE 5.5 pcs per plant		CHR/I/ADEL 280 SC	0.10							15.11.2019
				CHR/I/ADEL 280 SC	0.12							21.11.2019
				CHR/I/ADEL 280 SC	0.14							
	BRVCBR	BRVCBR 9.6 pcs per plant		CHR/I/ADEL 280 SC	0.16							
AI/19/RO/27/ZI/ADEL	winter oilseed rape/Harry	plant, leaf, larva	IATALG - LARVA 100	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							15.10.2019
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							18.10.2019
				CHR/I/ADEL 280 SC	0.10							21.10.2019
				CHR/I/ADEL 280 SC	0.12							24.10.2019
				CHR/I/ADEL 280 SC	0.14							
	IATALG	IATALG 1.2 pcs per plant		CHR/I/ADEL 280 SC	0.16							
A.T/2020/027/RZO	winter oilseed rape/ Kuga	stem, adult	CEUTQU - ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							08.04.2020
				CHR/I/ADEL 280 SC	0.08							Assessment date:
				CHR/I/ADEL 280 SC + Asystent+	0.10							06.05.2020

	CEUTQU	CEUTQU 6.3 pcs per stem		CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.10 0.12 0.14 0.16							
A.T/2020/029/RZO	winter oilseed rape/ Dominator	shoot, adult	MELIAE - ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asysent+	0.25 L/ha + 0.1 L/ha	Application date: 10.04.2020
				CHR/I/ADEL 280 SC	0.08							Assessment date: 11.04.2020
				CHR/I/ADEL 280 SC + Asysent+	0.08							16.04.2020
				CHR/I/ADEL 280 SC	0.10							19.04.2020
	MELIAE	MELIAE 4.3 pcs per shoot		CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
A.T/2020/030/RZO	winter oilseed rape/ Kuga	shoot, adult	MELIAE - ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asysent+	0.25 L/ha + 0.1 L/ha	Application date: 22.04.2020
				CHR/I/ADEL 280 SC	0.08							Assessment date: 23.04.2020
				CHR/I/ADEL 280 SC + Asysent+	0.08							27.04.2020
				CHR/I/ADEL 280 SC	0.10							01.05.2020
	MELIAE	MELIAE 2.0 pcs per shoot		CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
A.T/2020/031/RZO	winter oilseed	plant, adult	CEUTPL -	CHR/I/ADEL 280	0.06	Inazuma 130	0.2 kg/ha	Decis Mega	0.15 L/ha	Los Ova-	0.25 L/ha	Application

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	rape/ Domina- tor		ADULT 100 DASYBR - ADULT 100	SC CHR/I/ADEL 280 SC	0.08	WG		50 EW		dos 200 SE + Asystent+	+ 0.1 L/ha	date: 24.04.2020 Assessment date: 26.04.2020 30.04.2020 08.05.2020 18.05.2020
	CEUTPL	CEUTPL 0.8 pcs per plant		CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.08 0.10 0.10 0.12							
	DASYBR	DASYBR 2.6 pcs per plant		CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.14 0.16							
<b>A.T/2020/032/RZO</b>	winter oilseed rape/ Kuga	plant, adult		CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asystent+	0.06 0.08 0.08 0.10	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.15 L/ha	Los Ova- dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date: 07.05.2020 Assessment date: 09.05.2020 13.05.2020 29.05.2020
	CEUTPL	CEUTPL 1.1 pcs per plant	CEUTPL - ADULT 100	CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.10 0.12 0.14 0.16							
<b>A.T/2020/085/RZO</b>	winter oilseed rape/ Kuga	plant, adult		CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asystent+	0.06 0.08 0.08 0.10	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.15 L/ha	Los Ova- dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date: 22.05.2020 Assessment date: 28.05.2020 05.06.2020
	DASYBR	DASYBR 1.8 pcs per	DASYBR - ADULT 100	CHR/I/ADEL 280 SC	0.10							

		plant		CHR/I/ADEL 280 SC	0.12																
				CHR/I/ADEL 280 SC	0.14																
				CHR/I/ADEL 280 SC	0.16																
AI/20/RO/7/NW/ADEL	winter oilseed rape/Harry	plant, stem, larva	CEUTQU - LARVA 100 CEUTNA - LARVA 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date: 23.03.2020 Assessment date: 11.05.2020									
	CEUTQU	3.9 pcs per plant		CHR/I/ADEL 280 SC	0.08								CHR/I/ADEL 280 SC + Asystent+	0.08							
				CHR/I/ADEL 280 SC	0.10								CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12								CHR/I/ADEL 280 SC	0.14							
	CEUTNA	3.9 pcs per plant		CHR/I/ADEL 280 SC	0.14								CHR/I/ADEL 280 SC	0.16							
	SRPL20-413-336FE	winter wheat/Kilimanjaro		plant, adult	MACSAV - ADULT 100 THRISP - ADULT 100								CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	Application date: 30.06.2020 Assessment date: 03.07.2020 07.07.2020 14.07.2020
		MACSAV		2.2 pcs per plant									CHR/I/ADEL 280 SC	0.08							
CHR/I/ADEL 280 SC			0.10			CHR/I/ADEL 280 SC	0.10														
CHR/I/ADEL 280 SC			0.12			CHR/I/ADEL 280 SC	0.14														
THRISP		2.5 pcs per plant	CHR/I/ADEL 280 SC	0.14		CHR/I/ADEL 280 SC	0.16														
SRPL20-414-336FE		winter wheat/Ostroga	plant, adult	MACSAV - ADULT 100 THRISP -		CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	Application date: 04.07.2020							
						CHR/I/ADEL 280	0.08														

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				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
SRPL20-415-336FE	winter triticale/ Fredro	plant, adult	MACSAV - ADULT 100 THRISP - ADULT 100	CHR/I/ADEL 280 SC	0.06	-	-	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							06.07.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							09.07.2020
	MACSAV	MACSAV 2.7 pcs per plant		CHR/I/ADEL 280 SC	0.10							13.07.2020
				CHR/I/ADEL 280 SC	0.12							20.07.2020
	THRISP	THRISP 2.9 pcs per plant		CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
SRPL20-418-336FE	winter triticale/ Trapero	plant, adult	THRISP - ADULT 100	CHR/I/ADEL 280 SC	0.06	-	-	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							30.06.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							03.07.2021
				CHR/I/ADEL 280 SC	0.10							09.07.2020
				CHR/I/ADEL 280 SC	0.12							16.07.2020
	THRISP	THRISP 3.1 pcs per plant		CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
AI/20/PszO/24/Gr/02	winter triticale/ Tadeus	plant, insect	MACSAV - NYMPH 50 MACSAV - LARVA 30 MACSAV -	CHR/I/ADEL 280 SC	0.06	-	-	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							26.06.2020
				CHR/I/ADEL 280	0.08							Assessment

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			ADULT 20	SC + Asystent+	0.10							date: 29.06.2020 03.07.2020
	MACSAV	MACSAV 0.6 pcs per plant		CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
<b>SRPL20-419-336FE</b>	sugar beet/ Sobieski	plant, larva	PEGOHY - LARVA 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date: 22.05.2020
				CHR/I/ADEL 280 SC	0.08							Assessment date: 23.05.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							25.05.2020
				CHR/I/ADEL 280 SC	0.10							29.05.2020
	PEGOHY	PEGOHY 2.0 pcs per plant		CHR/I/ADEL 280 SC	0.10							05.06.2020
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
<b>SRPL20-420-336FE</b>	sugar beet/ Jagienka	plant, larva	PEGOHY - LARVA 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date: 29.05.2020
				CHR/I/ADEL 280 SC	0.08							Assessment date: 30.05.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							01.06.2020
				CHR/I/ADEL 280 SC	0.10							05.06.2020
	PEGOHY	PEGOHY 2.0 pcs per plant		CHR/I/ADEL 280 SC	0.10							12.06.2020
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							

				CHR/I/ADEL 280 SC	0.16							
SRPL20-421-336FE	sugar beet/ Kujavia	plant, adult	APHISP - ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							02.06.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							03.06.2020
	APHISP	APHISP 25.7 pcs per plant		CHR/I/ADEL 280 SC	0.10							05.06.2020
				CHR/I/ADEL 280 SC	0.12							09.06.2020
				CHR/I/ADEL 280 SC	0.14							16.06.2020
				CHR/I/ADEL 280 SC	0.16							
AI/20/Bc/24/Lu/01	sugar beet/ Krajan	plant, insect	APHIFA - NYMPH 40 APHIFA - LARVA 30 APHIFA - ADULT 30	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							18.05.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							21.05.2020
	APHIFA	APHIFA 14.3 pcs per plant		CHR/I/ADEL 280 SC	0.10							25.05.2020
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
A.T/2020/116/RZO	winter oilseed rape/ ES Ce- sario	Plant, larva	ATALCO LARVA 100	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							09.10.2020
				CHR/I/ADEL 280 SC	0.08							Assessment date:
				CHR/I/ADEL 280 SC + Asystent+	0.10							12.10.2020

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	ATALCO	ATALCO 1.1 pcs. per plant		CHR/I/ADEL 280 SC	0.10							15.10.2020
				CHR/I/ADEL 280 SC	0.12							18.10.2020
				CHR/I/ADEL 280 SC	0.14							20.07.2021
				CHR/I/ADEL 280 SC	0.16							09.08.2021
A.T/2020/117/RZO	winter oilseed rape/ Kuga	Plant, larva		CHR/I/ADEL 280 SC	0.06							Application date:
				CHR/I/ADEL 280 SC	0.08							22.10.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
			ATALCO LARVA 100	CHR/I/ADEL 280 SC	0.10	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	23.10.2020
				CHR/I/ADEL 280 SC	0.10							26.10.2020
	ATALCO	ATALCO 0.9 pcs. per plant		CHR/I/ADEL 280 SC	0.12							30.10.2020
				CHR/I/ADEL 280 SC	0.14							31.07.2021
				CHR/I/ADEL 280 SC	0.16							07.09.2021
A.T/2020/118/RZO	winter oilseed rape/ Hamilton	Plant, larva		CHR/I/ADEL 280 SC	0.06							Application date:
				CHR/I/ADEL 280 SC	0.08							22.10.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
			ATALCO LARVA 100	CHR/I/ADEL 280 SC	0.10	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	23.10.2020
				CHR/I/ADEL 280 SC	0.10							26.10.2020
	ATALCO	ATALCO 0.9 pcs. per plant		CHR/I/ADEL 280 SC	0.12							29.10.2020
				CHR/I/ADEL 280 SC	0.14							28.07.2021
				CHR/I/ADEL 280 SC	0.16							24.08.2021

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A.T/2020/119/RZO	winter oilseed rape/ Addition	Plant, larva	BRVCBR LARVA 100	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							23.10.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
	BRVCBR	BRVCBR 7.4 pcs. per plant	CHR/I/ADEL 280 SC	0.10	26.10.2020							
			CHR/I/ADEL 280 SC	0.10	30.10.2020							
			CHR/I/ADEL 280 SC	0.12	05.11.2020							
			CHR/I/ADEL 280 SC	0.14	24.07.2021							
			CHR/I/ADEL 280 SC	0.16	04.08.2021							
A.T/2020/120/RZO	winter oilseed rape/ Dominator	Plant, larva	BRVCBR MIXED 100	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							28.10.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
	BRVCBR	BRVCBR 8.9 pcs. per plant	CHR/I/ADEL 280 SC	0.10	29.10.2020							
			CHR/I/ADEL 280 SC	0.10	04.11.2020							
			CHR/I/ADEL 280 SC	0.12	10.11.2020							
			CHR/I/ADEL 280 SC	0.14	27.07.2021							
			CHR/I/ADEL 280 SC	0.16	23.08.2021							
A.T/2020/121/RZO	winter oilseed rape/ Hamilton	Plant, larva	BRVCBR MIXED 100; MY-ZUPE MIXED 100	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							22.10.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:

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		BRVCBR 8.7 pcs. per plant		CHR/I/ADEL 280 SC	0.10							23.10.2020
	BRVCBR MYZUPE			CHR/I/ADEL 280 SC	0.10							29.10.2020
		MYZUPE 6.5 pcs. per plant		CHR/I/ADEL 280 SC	0.12							05.11.2020
				CHR/I/ADEL 280 SC	0.14							26.07.2021
				CHR/I/ADEL 280 SC	0.16							24.08.2021
AI/20/RO/36/Pr/1	winter oilseed rape/ Harry	Plant, insect		CHR/I/ADEL 280 SC	0.06							Application date:
				CHR/I/ADEL 280 SC	0.08							17.09.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
	ATALCO	ATALCO 0.6 pcs. per plant	ATALCO LARVA 100	CHR/I/ADEL 280 SC	0.10	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	19.09.2020
				CHR/I/ADEL 280 SC	0.10							24.09.2020
				CHR/I/ADEL 280 SC	0.12							30.09.2020
				CHR/I/ADEL 280 SC	0.14							20.07.2021
				CHR/I/ADEL 280 SC	0.16							26.08.2021
				CHR/I/ADEL 280 SC	0.06							Application date:
	winter oilseed rape/ Graf F1	Plant, insect		CHR/I/ADEL 280 SC	0.08							21.09.2020
AI/20/RO/36/ZI/2				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	22.09.2020
	APHISP	APHISP 0.7 pcs. per plant	APHISP NYMPH 65 LARVA 15 ADULT 20	CHR/I/ADEL 280 SC	0.10							28.09.2020
				CHR/I/ADEL 280 SC	0.12							05.10.2020
				CHR/I/ADEL 280 SC	0.14							19.07.2021

				CHR/I/ADEL 280 SC	0.16							26.08.2021
AI/20/RO/36/Br/3	winter oilseed rape/ Berny	Plant, insect	APHISP NYMPH 80 LARVA 15 ADULT 5	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asysent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							18.09.2020
				CHR/I/ADEL 280 SC + Asysent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							19.09.2020
				CHR/I/ADEL 280 SC	0.10							25.09.2020
				CHR/I/ADEL 280 SC	0.12							02.10.2020
				CHR/I/ADEL 280 SC	0.14							22.07.2021
				CHR/I/ADEL 280 SC	0.16							26.08.2021
4I/2021	winter oilseed rape/ Alibaba	Plant, larva	ATALCO LARVA 100	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE + Asysent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							24.09.2020
				CHR/I/ADEL 280 SC + Asysent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							26.09.2020
				CHR/I/ADEL 280 SC	0.10							29.09.2020
				CHR/I/ADEL 280 SC	0.12							03.10.2020
				CHR/I/ADEL 280 SC	0.14							08.10.2020
				CHR/I/ADEL 280 SC	0.16							14.08.2021
												19.08.2021
												24.08.2021
5I/2021	winter oilseed rape/ Visby	Plant, larva	ATALCO LARVA	CHR/I/ADEL 280 SC	0.06	Los Ovados 200 SE +	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	Application date:

			100	CHR/I/ADEL 280 SC	0.08	Asystent+						24.09.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							26.09.2020
				CHR/I/ADEL 280 SC	0.10							29.09.2020
	ATALCO	ATALCO 0.33 pcs. per plant		CHR/I/ADEL 280 SC	0.12							03.10.2020
				CHR/I/ADEL 280 SC	0.14							08.10.2020
				CHR/I/ADEL 280 SC	0.16							14.08.2021
												19.08.2021
												24.08.2021
				CHR/I/ADEL 280 SC	0.06							Application date:
	winter oilseed rape/ Visby	Plant, adult		CHR/I/ADEL 280 SC	0.08							09.10.2020
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							10.10.2020
6I/2021			MYZUPE ALATE 5; APTERO 95	CHR/I/ADEL 280 SC	0.10	Los Ovados 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Decis Mega 50 EW	0.15 L/ha	-	-	16.10.2020
		MYZUPE 32.46 pcs. Per plant		CHR/I/ADEL 280 SC	0.12							22.10.2020
	MYZUPE			CHR/I/ADEL 280 SC	0.14							29.10.2020
				CHR/I/ADEL 280 SC	0.16							
A.T/2021/001/RZO	winter oilseed rape/ Domina-	Plant, larva, stem	CEUTNA ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:



Product code: CHR/I/ADEL 280 SC  
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	tor			CHR/I/ADEL 280 SC	0.08							26.03.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							09.04.2021
				CHR/I/ADEL 280 SC	0.10							21.04.2021
	CEUTNA	CEUTNA 23.8 pcs. per plot		CHR/I/ADEL 280 SC	0.12							12.05.2021
				CHR/I/ADEL 280 SC	0.14							21.07.2021
				CHR/I/ADEL 280 SC	0.16							10.08.2021
A.T/2021/002/RZO	winter oilseed rape/ Kuga	Plant, larva, stem		CHR/I/ADEL 280 SC	0.06							Application date:
				CHR/I/ADEL 280 SC	0.08							30.03.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							09.04.2021
	CEUTNA	CEUTNA 20.8 pcs. per plot	CEUTNA ADULT 100	CHR/I/ADEL 280 SC	0.10	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	23.04.2021
				CHR/I/ADEL 280 SC	0.12							21.05.2021
				CHR/I/ADEL 280 SC	0.14							30.07.2021
				CHR/I/ADEL 280 SC	0.16							12.08.2021
A.T/2021/003/RZO	winter oilseed rape/ Umberto	Plant, larva, stem		CHR/I/ADEL 280 SC	0.06							Application date:
				CHR/I/ADEL 280 SC	0.08							30.03.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							13.04.2021
	CEUTNA	CEUTNA		CHR/I/ADEL 280	0.10	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	27.04.2021

Product code: CHR/I/ADEL 280 SC

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		16.8 pcs. per plot		SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.12 0.14 0.16							02.06.2021 03.08.2021 06.09.2021
A.T/2021/004/RZO	winter oilseed rape/ KWS Riccardo	Plant, larva, stem  CEUTNA 35.3 pcs. per plot	CEUTNA ADULT 100	CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asysent+ CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.06 0.08 0.08 0.10 0.10 0.12 0.14 0.16	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:  30.03.2021 Assessment date: 13.04.2021 27.04.2021 18.05.2021 24.07.2021 18.08.2021
A.T/2021/005/RZO	winter oilseed rape/ Polana	Plant, larva, stem  CEUTNA 33.5 pcs. per plot	CEUTNA ADULT 100	CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asysent+ CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.06 0.08 0.08 0.10 0.10 0.12 0.14 0.16	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:  19.04.2021 Assessment date: 01.05.2021 17.05.2021 03.06.2021 20.07.2021 16.08.2021

A.T/2021/006/RZO	winter oilseed rape/ Dominator	Plant, larva, stem	CEUTQU ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							17.04.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							01.05.2021
				CHR/I/ADEL 280 SC	0.10							15.05.2021
				CHR/I/ADEL 280 SC	0.12							18.05.2021
				CHR/I/ADEL 280 SC	0.14							21.07.2021
				CHR/I/ADEL 280 SC	0.16							24.08.2021
				CEUTQU	29.8 pcs. per plot							
A.T/2021/007/RZO	winter oilseed rape/ LG Aviron	Plant, larva, stem	CEUTQU ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							31.03.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							14.04.2021
				CHR/I/ADEL 280 SC	0.10							28.04.2021
				CHR/I/ADEL 280 SC	0.12							26.05.2021
				CHR/I/ADEL 280 SC	0.14							29.07.2021
				CHR/I/ADEL 280 SC	0.16							19.08.2021
				CEUTQU	20.8 pcs. per plot							
A.T/2021/008/RZO	winter oilseed rape/ KWS Riccardo	Plant, larva, stem	CEUTQU ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							12.04.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:

		CEUTQU 20.0 pcs. per plot		CHR/I/ADEL 280 SC	0.10							26.04.2021
	CEUTQU			CHR/I/ADEL 280 SC	0.10							10.05.2021
				CHR/I/ADEL 280 SC	0.12							21.05.2021
				CHR/I/ADEL 280 SC	0.14							24.07.2021
				CHR/I/ADEL 280 SC	0.16							27.08.2021
A.T/2021/009/RZO	winter oilseed rape/ LG Avi- ron	Plant, adult, shoot		CHR/I/ADEL 280 SC	0.06							Application date;
				CHR/I/ADEL 280 SC	0.08							10.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date;
			MELIAE ADULT 100	CHR/I/ADEL 280 SC	0.10	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova- dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	11.05.2021
	MELIAE	MELIAE 1.1 pcs. per shoot		CHR/I/ADEL 280 SC	0.10							14.05.2021
				CHR/I/ADEL 280 SC	0.12							19.05.2021
				CHR/I/ADEL 280 SC	0.14							29.07.2021
				CHR/I/ADEL 280 SC	0.16							26.08.2021
A.T/2021/010/RZO	winter oilseed rape/ Polana	Plant, adult, shoot		CHR/I/ADEL 280 SC	0.06							Application date;
				CHR/I/ADEL 280 SC	0.08							30.04.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date;
			MELIAE ADULT 100	CHR/I/ADEL 280 SC	0.10	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova- dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	01.05.2021
	MELIAE	MELIAE 2.7 pcs. per shoot		CHR/I/ADEL 280 SC	0.10							04.05.2021
				CHR/I/ADEL 280 SC	0.12							07.05.2021
				CHR/I/ADEL 280 SC	0.14							20.07.2021

				CHR/I/ADEL 280 SC	0.16							18.08.2021
A.T/2021/064/RZO	winter oilseed rape/ Umberto	Plant, adult	CEUTPL ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:
				CHR/I/ADEL 280 SC	0.08							19.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							20.05.2021
				CHR/I/ADEL 280 SC	0.10							24.05.2021
				CHR/I/ADEL 280 SC	0.12							15.06.2021
				CHR/I/ADEL 280 SC	0.14							29.07.2021
				CHR/I/ADEL 280 SC	0.16							18.08.2021
A.T/2021/065/RZO	winter oilseed rape/ Dominator	Plant, adult	CEUTPL ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:
				CHR/I/ADEL 280 SC	0.08							12.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							13.05.2021
				CHR/I/ADEL 280 SC	0.10							17.05.2021
				CHR/I/ADEL 280 SC	0.12							08.06.2021
				CHR/I/ADEL 280 SC	0.14							24.07.2021
				CHR/I/ADEL 280 SC	0.16							20.08.2021
A.T/2021/066/RZO	winter oilseed rape/ LG Aviron	Plant, adult, pod	DASYBR ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:
				CHR/I/ADEL 280 SC	0.08							24.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							30.05.2021

	DASYBR	DASYBR 1.5 pcs. per plant  		CHR/I/ADEL 280 SC 0.10 CHR/I/ADEL 280 SC 0.12 CHR/I/ADEL 280 SC 0.14 CHR/I/ADEL 280 SC 0.16							07.06.2021  22.07.2021  20.08.2021  	
AI/21/RO/4/Pr/01	winter oilseed rape/ Harry   CEUTQU CEUTNA	Plant, larva, stem  CEUTQU 6.2 per stem  CEUTNA 6.2 per stem	CEUTQU LARVA 100; CEUTNA LARVA 100	CHR/I/ADEL 280 SC 0.06 CHR/I/ADEL 280 SC 0.08 CHR/I/ADEL 280 SC + Asystent+ 0.08 0.10 CHR/I/ADEL 280 SC 0.10 CHR/I/ADEL 280 SC 0.12 CHR/I/ADEL 280 SC 0.14 CHR/I/ADEL 280 SC 0.16   		Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date: 13.04.2021 Assessment date: 20.04.2021 27.04.2021 17.05.2021 20.07.2021 16.08.2021 08.09.2021
AI/21/RO/4/ZI/02	winter oilseed rape/ Graf F1   CEUTQU CEUTNA	Plant, larva, stem  CEUTQU 7.7 per stem  CEUTNA 7.7 per stem	CEUTQU ADULT 100; CEUTNA ADULT 100	CHR/I/ADEL 280 SC 0.06 CHR/I/ADEL 280 SC 0.08 CHR/I/ADEL 280 SC 0.08 CHR/I/ADEL 280 SC + Asystent+ 0.10 0.10 CHR/I/ADEL 280 SC 0.10 CHR/I/ADEL 280 SC 0.12 CHR/I/ADEL 280 SC 0.14 CHR/I/ADEL 280 SC 0.16		Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date: 31.03.2021 Assessment date: 07.04.2021 14.04.2021 14.05.2021 20.07.2021 16.08.2021

												08.09.2021	
AI/21/RO/4/Br/03	winter oilseed rape/ Berny	Plant, larva, stem	CEUTQU ADULT 100; CEUTNA ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:	
				CHR/I/ADEL 280 SC	0.08							01.04.2021	
		CEUTQU 6.2 per stem		CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:	
				CHR/I/ADEL 280 SC	0.10							08.04.2021	
		CEUTQU CEUTNA		CEUTNA 6.2 per stem	CHR/I/ADEL 280 SC							0.10	15.04.2021
					CHR/I/ADEL 280 SC							0.12	14.05.2021
					CHR/I/ADEL 280 SC							0.14	22.07.2021
					CHR/I/ADEL 280 SC							0.16	16.08.2021
													08.09.2021
AI/21/RO/14/Ma/ADEL	winter oilseed rape/ Harry	Plant, larva, stem	CEUTPL MIXED 100; DASYSP MIXED 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:	
				CHR/I/ADEL 280 SC	0.08							20.05.2021	
		CEUTPL 14.3 pcs. per plant		CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:	
				CHR/I/ADEL 280 SC	0.10							27.05.2021	
		CEUTPL DASYBR		DASYBR 12.8 pcs. per plant	CHR/I/ADEL 280 SC							0.10	03.06.2021
					CHR/I/ADEL 280 SC							0.12	21.06.2021
					CHR/I/ADEL 280 SC							0.14	20.07.2021
					CHR/I/ADEL 280 SC							0.16	23.07.2021
													20.08.2021
CH-WR-I-ADEL-2021-01	winter oilseed rape/ Kuga F1	Plant, instect	MELIAE ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:	
				CHR/I/ADEL 280 SC	0.08							24.04.2021	

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	MELIAE	MELIAE 4.4 pcs. per plant		CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date: 26.04.2021
				CHR/I/ADEL 280 SC	0.10							29.04.2021
				CHR/I/ADEL 280 SC	0.12							02.05.2021
				CHR/I/ADEL 280 SC	0.14							20.07.2021
				CHR/I/ADEL 280 SC	0.16							
CH-WR-I-ADEL-2021-02	winter oilseed rape/ Kuga F1	Plant, insect	MELIAE ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date: 24.04.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 26.04.2021
				CHR/I/ADEL 280 SC + Asystent+	0.10							29.04.2021
				CHR/I/ADEL 280 SC	0.10							02.05.2021
				CHR/I/ADEL 280 SC	0.12							20.07.2021
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
CH-WR-I-ADEL-2021-03	winter oilseed rape/ Kuga F1	Plant, insect, pod	DASYBR ADULT 100; CEUTPL ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date: 13.05.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 14.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.10							20.05.2021
				CHR/I/ADEL 280 SC	0.10							27.05.2021
				CHR/I/ADEL 280 SC	0.12							08.06.2021
				CHR/I/ADEL 280 SC	0.14							



		plamt		CHR/I/ADEL 280 SC	0.16							20.07.2021
CH-WR-I-ADEL-2021-04	winter oilseed rape/ Kuga F1	Plant, instect, pod	DASYBR ADULT 100; CEUTPL ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:
				CHR/I/ADEL 280 SC	0.08							12.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							14.05.2021
				CHR/I/ADEL 280 SC	0.10							20.05.2021
				CHR/I/ADEL 280 SC	0.12							27.05.2021
				CHR/I/ADEL 280 SC	0.14							07.06.2021
				CHR/I/ADEL 280 SC	0.16							20.07.2021
SRPL21-401-336FE	winter oilseed rape/ DK Ex-quisite	Plant, instect	MELIAE ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:
				CHR/I/ADEL 280 SC	0.08							11.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							12.05.2021
				CHR/I/ADEL 280 SC	0.10							17.05.2021
				CHR/I/ADEL 280 SC	0.12							18.05.2021
				CHR/I/ADEL 280 SC	0.14							20.05.2021
				CHR/I/ADEL 280 SC	0.16							25.05.2021
												01.06.2021
												29.07.2021
SRPL21-402-336FE	winter oilseed rape/ Bazyl	Plant, instect	MELIAE ADULT 100	CHR/I/ADEL 280 SC	0.06	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	Application date:
				CHR/I/ADEL 280 SC	0.08							12.05.2021
				CHR/I/ADEL 280 SC	0.08							Assessment

				SC + Asystent+								date:
					0.10							13.05.2021
				CHR/I/ADEL 280 SC	0.10							17.05.2021
				CHR/I/ADEL 280 SC	0.12							19.05.2021
	MELIAE	MELIAE 1.33 pcs. per plant		CHR/I/ADEL 280 SC	0.14							21.05.2021
				CHR/I/ADEL 280 SC	0.16							26.05.2021
												02.06.2021
												30.07.2021
				CHR/I/ADEL 280 SC	0.06							Application date:
	winter oilseed rape/ Architect	Plant, adult, larva		CHR/I/ADEL 280 SC	0.08							20.04.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
					0.10							18.04.2021
				CHR/I/ADEL 280 SC	0.10							23.04.2021
9I/2021		CEUTQU 14.5 per plant	CEUTQU ADULT 100	CHR/I/ADEL 280 SC	0.12	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	27.04.2021
	CEUTQU			CHR/I/ADEL 280 SC	0.14							04.05.2021
				CHR/I/ADEL 280 SC	0.16							27.05.2021
												28.05.2021
												30.07.2021
												02.08.2021
												09.08.2021
10I/2021	winter oilseed rape/Alibaba	Plant, adult, larva	CEUTQU ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.15 L/ha	Inazuma 130 WG	0.2 kg/ha	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							20.04.2021

				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date: 18.04.2021
				CHR/I/ADEL 280 SC	0.10							23.04.2021
		CEUTQU 34.0 per plant		CHR/I/ADEL 280 SC	0.12							27.04.2021
				CHR/I/ADEL 280 SC	0.14							04.05.2021
	CEUTQU			CHR/I/ADEL 280 SC	0.16							28.05.2021
												28.07.2021
												30.07.2021
												11.08.2021
				CHR/I/ADEL 280 SC	0.06							Application date: 14.05.2021
	winter oilseed rape/Birdy	Plant, adult, larva		CHR/I/ADEL 280 SC	0.08							Assessment date: 14.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.10							15.05.2021
			DASYBR ADULT 100;	CHR/I/ADEL 280 SC	0.10							20.05.2021
		CEUTPL 0.463 pcs. per plant	CEUTPL ADULT 100	CHR/I/ADEL 280 SC	0.12	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	11.06.2021
	CEUPTL DASYBR			CHR/I/ADEL 280 SC	0.14							26.07.2021
				CHR/I/ADEL 280 SC	0.16							30.07.2021
		DASYBR 0.33 pcs. per plant										16.08.2021
				CHR/I/ADEL 280 SC	0.06							Application date: 14.05.2021
	winter oilseed rape/ Architect	Plant, adult, larva	DASYBR ADULT 100; CEUTPL	CHR/I/ADEL 280 SC	0.08	Inazuma 130 WG	0.2 kg/ha	Decis Mega 50 EW	0.1 L/ha	Los Ova-dos 200 SE + Asystent+	0.25 L/ha + 0.1 L/ha	14.05.2021

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			ADULT 100	CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date: 14.05.2021
				CHR/I/ADEL 280 SC	0.10							15.05.2021
		CEUTPL 1.113 pcs. per plant		CHR/I/ADEL 280 SC	0.12							20.05.2021
	CEUPTL DASYBR			CHR/I/ADEL 280 SC	0.14							11.06.2021
		DASYBR 0.578 pcs. per plant		CHR/I/ADEL 280 SC	0.16							30.07.2021
												03.08.2021
												16.08.2021
A.T/2021/088/PO	winter wheat/ RGT Kili- manjaro	Plant, ear, insect	MCSAV MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	Application date: 23.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 24.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.10							01.07.2021
	MACSAV	MACSAV 6.3 pcs. per ear		CHR/I/ADEL 280 SC	0.10							24.07.2021
				CHR/I/ADEL 280 SC	0.12							31.08.2021
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
A.T/2021/089/PO	winter wheat/ Euclide	Plant, ear, insect	MCSAV MIXED 100 METODR MIXED 100 RHOPPA MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	Application date: 24.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 25.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.10							02.07.2021
	MACSAV	MACSAV		CHR/I/ADEL 280	0.10							

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	METODR	1.1 pcs. per ear	SC	CHR/I/ADEL 280 SC	0.12							27.07.2021
	RHOPPA	METODR 2.2 pcs. per ear		CHR/I/ADEL 280 SC	0.14							31.08.2021
	-	RHOPPA 1.6 pcs. per ear		CHR/I/ADEL 280 SC	0.16							-
A.T/2021/090/PO	winter wheat/ RGT Bilanz	Plant, ear, insect	MACSAV ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	Application date: 28.06.2021 Assessment date: 30.06.2021 06.07.2021 03.08.2021 06.09.2021 -
	MACSAV	MACSAV 5.1 pcs. per ear		CHR/I/ADEL 280 SC	0.10							
	-	-		CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
A.T/2021/091/PO	winter wheat/ Tonnage	Plant, ear, insect	MACSAV ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	Application date: 26.06.2021 Assessment date: 29.06.2021 05.07.2021 28.07.2021 01.09.2021 -
	MACSAV	MACSAV 4.4 pcs. per ear		CHR/I/ADEL 280 SC	0.10							
	-	-		CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							

SRPL21-450-336FE	winter wheat/ Asory	Plant, insect		CHR/I/ADEL 280 SC	0.06							Application date: 30.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 03.07.2021
			MACSAV ADULT 100	CHR/I/ADEL 280 SC + Asystent+	0.08							08.07.2021
	MACSAV	MACSAV 6.46 pcs. per plant	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.10	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	14.07.2021
				CHR/I/ADEL 280 SC	0.12							29.07.2021
	THRISP	THRISP 5.98 pcs. per plant		CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
SRPL21-451-336FE	winter wheat/ Findus	Plant, insect		CHR/I/ADEL 280 SC	0.06							Application date: 30.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 01.07.2021
			MACSAV MIXED 100	CHR/I/ADEL 280 SC + Asystent+	0.08							07.07.2021
	MACSAV	MACSAV 6.81 pcs. per plant	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.10	Decis Mega 50 EW	0.125 L/ha	Fastac Active 50 ME	0.3 L/ha	-	-	14.07.2021
				CHR/I/ADEL 280 SC	0.12							21.07.2021
	THRISP	THRISP 5.04 pcs. per plant		CHR/I/ADEL 280 SC	0.14							30.07.2021
				CHR/I/ADEL 280 SC	0.16							
A.T/2021/092/PŽO	winter triticales/ Meloman	Plant, ear, insect		CHR/I/ADEL 280 SC	0.06							Application date: 18.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 21.06.2021
			MACSAV ADULT 100	CHR/I/ADEL 280 SC + Asystent+	0.08	Decis Mega 50 EW	0.125 L/ha	-	-	-	-	25.06.2021
				CHR/I/ADEL 280 SC	0.10							
	MACSAV	MACSAV		CHR/I/ADEL 280	0.10							

		5.1 pcs. per ear		SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.12 0.14 0.16							23.07.2021 03.09.2021 -
A.T/2021/093/PŽO	winter triticales/ Lombardo  RHOPPA -	Plant, ear, insect  RHOPPA 4.9 pcs. per ear -	RHOPPA MIXED 100	CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asystent+ CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.06 0.08 0.08 0.10 0.10 0.12 0.14 0.16	Decis Mega 50 EW	0.125 L/ha	-	-	-	-	Application date: 23.06.2021 Assessment date: 25.06.2021 02.07.2021 05.08.2021 30.08.2021 -
A.T/2021/094/PŽO	winter triticales/ Orinoko  MACSAV -	Plant, ear, insect  MACSAV 5.1 pcs. per ear -	MACSAV MIXED 100	CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asystent+ CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.06 0.08 0.08 0.10 0.10 0.12 0.14 0.16	Decis Mega 50 EW	0.125 L/ha	-	-	-	-	Application date: 24.06.2021 Assessment date: 26.06.2021 02.07.2021 27.06.2021 30.08.2021 -

A.T/2021/095/PZO	winter triticales/ Meloman	Plant, ear, insect	MACSAV MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	-	-	-	-	Application date: 26.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 29.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							
				CHR/I/ADEL 280 SC + Asystent+	0.10							
	MACSAV	MACSAV 8.3 pcs. per ear		CHR/I/ADEL 280 SC	0.10							05.07.2021
				CHR/I/ADEL 280 SC	0.12							13.08.2021
				CHR/I/ADEL 280 SC	0.14							08.09.2021
				CHR/I/ADEL 280 SC	0.16							
AI/21/PszO/20/Pr/1	winter triticales/ Grenado	Plant, insect	MACSAV NYMPH 70 ADULT 30	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	-	-	-	-	Application date: 03.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 05.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							
				CHR/I/ADEL 280 SC + Asystent+	0.10							
	MACSAV	MACSAV 7.8 pcs. per plant		CHR/I/ADEL 280 SC	0.10							10.06.2021
				CHR/I/ADEL 280 SC	0.12							17.06.2021
				CHR/I/ADEL 280 SC	0.14							30.07.2021
				CHR/I/ADEL 280 SC	0.16							07.09.2021
AI/21/PszO/20/Ra/2	winter triticales/ Porto	Plant, insect	MACSAV NYMPH 80 ADULT 20	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.125 L/ha	-	-	-	-	Application date: 21.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date: 24.06.2021
				CHR/I/ADEL 280 SC	0.08							
				CHR/I/ADEL 280 SC + Asystent+	0.10							



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	MACSAV	MACSAV 13.3 pcs. per plant		CHR/I/ADEL 280 SC	0.10							28.06.2021
				CHR/I/ADEL 280 SC	0.12							05.07.2021
				CHR/I/ADEL 280 SC	0.14							28.07.2021
				CHR/I/ADEL 280 SC	0.16							23.08.2021
SRPL21-452-336FE	winter triticales/ Meloman	Plant, insect	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.06	Fastac Active 50 ME	0.3 L/ha	-	-	-	-	Application date: 21.06.2021 Assessment date: 24.06.2021 28.06.2021 05.07.2021 12.07.2021 02.08.2021
	THRISP	THRISP 5.5 pcs. per plant		CHR/I/ADEL 280 SC	0.08							
				CHR/I/ADEL 280 SC + Asystent+	0.08							
				CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
SRPL21-453-336FE	winter triticales/ Rotondo	Plant, insect	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.06	Fastac Active 50 ME	0.3 L/ha	-	-	-	-	Application date: 09.06.2021 Assessment date: 11.06.2021 16.06.2021 23.06.2021 30.06.2021 30.07.2021
	THRISP	THRISP 5.33 pcs. per plant		CHR/I/ADEL 280 SC	0.08							
				CHR/I/ADEL 280 SC + Asystent+	0.08							
				CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							

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SRPL21-454-336FE	winter triticales/ Balcanto	Plant, insect	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.06	Fastac Active 50 ME	0.3 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							30.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC + Asystent+	0.10							03.07.2021
	THRISP	THRISP 4.0 pcs. per plant		CHR/I/ADEL 280 SC	0.10							07.07.2021
				CHR/I/ADEL 280 SC	0.12							14.07.2021
				CHR/I/ADEL 280 SC	0.14							03.08.2021
				CHR/I/ADEL 280 SC	0.16							10.08.2021
SRPL21-455-336FE	winter triticales/ Borowik	Plant, insect	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.06	Fastac Active 50 ME	0.3 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							25.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC + Asystent+	0.10							28.06.2021
	THRISP	THRISP 10.44 pcs. per plant		CHR/I/ADEL 280 SC	0.10							03.07.2021
				CHR/I/ADEL 280 SC	0.12							09.07.2021
				CHR/I/ADEL 280 SC	0.14							03.08.2021
				CHR/I/ADEL 280 SC	0.16							02.09.2021
SRPL21-456-336FE	winter triticales/ Rotondo	Plant, insect	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.06	Fastac Active 50 ME	0.3 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							15.06.2021
				CHR/I/ADEL 280 SC	0.08							Assessment date:
				CHR/I/ADEL 280 SC + Asystent+	0.10							17.06.2021

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	THRISP	THRISP 4.0 pcs. per plant		CHR/I/ADEL 280 SC	0.10							22.06.2021
				CHR/I/ADEL 280 SC	0.12							29.06.2021
				CHR/I/ADEL 280 SC	0.14							05.08.2021
				CHR/I/ADEL 280 SC	0.16							02.09.2021
SRPL21-457-336FE	winter tritiale/ Rotondo	Plant, insect		CHR/I/ADEL 280 SC	0.06							Application date:
				CHR/I/ADEL 280 SC	0.08							09.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC + Asystent+	0.10							11.06.2021
	THRISP	THRISP 5.22 pcs. per plant	THRISP ADULT 100	CHR/I/ADEL 280 SC	0.10	Fastac Active 50 ME	0.3 L/ha	-	-	-	-	16.06.2021
				CHR/I/ADEL 280 SC	0.12							23.06.2021
				CHR/I/ADEL 280 SC	0.14							30.06.2021
				CHR/I/ADEL 280 SC	0.16							30.07.2021
A.T/2021/081/BC	sugar beet/ Toleranza KWS	Plant, adult		CHR/I/ADEL 280 SC	0.06							Application date:
				CHR/I/ADEL 280 SC	0.08							30.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC + Asystent+	0.10							31.05.2021
			APHIFA ADULT 100	CHR/I/ADEL 280 SC	0.10	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	07.06.2021
				CHR/I/ADEL 280 SC	0.12							11.07.2021
	APHIFA	APHIFA 2.1 pcs. per plant		CHR/I/ADEL 280 SC	0.14							06.10.2021
				CHR/I/ADEL 280 SC	0.16							21.10.2021

A.T/2021/082/BC	sugar beet/ Marynia	Plant, adult	APHIFA MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							14.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							15.06.2021
	APHIFA	APHIFA 3.3 pcs. per plant		CHR/I/ADEL 280 SC	0.10							21.06.2021
				CHR/I/ADEL 280 SC	0.12							28.06.2021
				CHR/I/ADEL 280 SC	0.14							08.10.2021
				CHR/I/ADEL 280 SC	0.16							21.10.2021
A.T/2021/083/BC	sugar beet/ Kujavia	Plant, adult	APHIFA MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							26.05.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
				CHR/I/ADEL 280 SC	0.10							28.05.2021
	APHIFA	APHIFA 5.3 pcs. per plant		CHR/I/ADEL 280 SC	0.10							04.06.2021
				CHR/I/ADEL 280 SC	0.12							09.06.2021
				CHR/I/ADEL 280 SC	0.14							13.09.2021
				CHR/I/ADEL 280 SC	0.16							28.09.2021
A.T/2021/084/BC	sugar beet/ Kujavia	Plant, adult	APHIFA ADULT 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							10.06.2021
				CHR/I/ADEL 280 SC + Asystent+	0.08							Assessment date:
	APHIFA	APHIFA 1.1 pcs. per		CHR/I/ADEL 280 SC	0.10							12.06.2021

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		plant		CHR/I/ADEL 280 SC	0.12							24.06.2021
				CHR/I/ADEL 280 SC	0.14							08.10.2021
				CHR/I/ADEL 280 SC	0.16							22.10.2021
A.T/2021/085/BC	sugar beet/ Smart Latoria KWS	Plant, adult	APHIFA MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date: 15.06.2021 Assessment date: 18.06.2021 23.06.2021 29.06.2021 02.09.2021 25.09.2021
	APHIFA	APHIFA 159.0 pcs. per plant		CHR/I/ADEL 280 SC + Asystent+	0.08							
				CHR/I/ADEL 280 SC	0.08							
				CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
A.T/2021/086/BC	sugar beet/ Jantar	Plant, egg	PEGOHY MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date: 04.06.2021 Assessment date: 11.06.2021 18.06.2021 07.10.2021 22.10.2021 
				CHR/I/ADEL 280 SC	0.08							
				CHR/I/ADEL 280 SC + Asystent+	0.08							
				CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.10							
				CHR/I/ADEL 280 SC	0.12							
				CHR/I/ADEL 280 SC	0.14							
				CHR/I/ADEL 280 SC	0.16							
A.T/2021/087/BC	sugar beet/ FD Drift	Plant, egg	PEGOHY MIXED 100	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date: 31.05.2021
				CHR/I/ADEL 280 SC	0.08							

				SC								Assessment date: 07.06.2021 15.06.2021 17.09.2021 25.09.2021 
	PEGOHY	PEGOHY 2.8 pcs. per plant		CHR/I/ADEL 280 SC + Asystent+ CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.08 0.10 0.10 0.12 0.14 0.16							
AI/21/BC/18/Br/1	sugar beet/ Lancaster	Plant, larva, leaf	PEGOHY LARVA 80; EGG 10; ADULT 10	CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asystent+ CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.06 0.08 0.08 0.10 0.10 0.12 0.14 0.16	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date: 20.05.2021 Assessment date: 04.06.2021 11.06.2021 18.06.2021 30.09.2021 03.12.2021
	PEGOHY	PEGOHY 18.0 pcs. per plant		CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.06 0.08 0.08 0.10 0.10 0.12 0.14 0.16							
AI/21/BC/18/La/2	sugar beet/ Gellert	Plant, larva, leaf	PEGOHY LARVA 70; EGG 20; ADULT 10	CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC + Asystent+ CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.06 0.08 0.08 0.10 0.10 0.12	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date: 24.05.2021 Assessment date: 07.06.2021 14.06.2021 21.06.2021
	PEGOHY	PEGOHY 15.3 pcs. per plant		CHR/I/ADEL 280 SC CHR/I/ADEL 280 SC	0.10 0.12							

				CHR/I/ADEL 280 SC	0.14							15.10.2021
				CHR/I/ADEL 280 SC	0.16							03.12.2021
AI/21/BC/18/Mr/3	sugar beet/ Panorama	Plant, larva, leaf	PEGOHY LARVA 70; EGG 30	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							31.05.2021
	CHR/I/ADEL 280 SC + Asystent+	0.08		Assessment date:								
	CHR/I/ADEL 280 SC	0.10		10.06.2021								
	CHR/I/ADEL 280 SC	0.10		17.06.2021								
	CHR/I/ADEL 280 SC	0.12		24.06.2021								
	CHR/I/ADEL 280 SC	0.14		21.10.2021								
	CHR/I/ADEL 280 SC	0.16		03.12.2021								
AI/21/BC/18/Ko/4	sugar beet/ Toleranza	Plant, larva, leaf	PEGOHY LARVA 80; EGG 20	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							31.05.2021
	CHR/I/ADEL 280 SC + Asystent+	0.08		Assessment date:								
	CHR/I/ADEL 280 SC	0.10		11.06.2021								
	CHR/I/ADEL 280 SC	0.10		18.06.2021								
	CHR/I/ADEL 280 SC	0.12		25.06.2021								
	CHR/I/ADEL 280 SC	0.14		18.10.2021								
	CHR/I/ADEL 280 SC	0.16		03.12.2021								
AI/21/BC/18/ZI	sugar beet/ Jagiellon	Plant, insect	APHIFA NYMPH 50; LARVA 20; ADULT 30	CHR/I/ADEL 280 SC	0.06	Decis Mega 50 EW	0.2 L/ha	-	-	-	-	Application date:
				CHR/I/ADEL 280 SC	0.08							25.05.2021
				CHR/I/ADEL 280	0.08							Assessment

				SC + Asystent+							date:
					0.10						27.05.2021
				CHR/I/ADEL 280	0.10						01.06.2021
				SC							
				CHR/I/ADEL 280	0.12						08.06.2021
				SC							
				CHR/I/ADEL 280	0.14						19.10.2021
				SC							
				CHR/I/ADEL 280	0.16						03.12.2021
				SC							

**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 insecticide effectiveness trials

*Table 1. The efficacy of CHR/1/ADEL 280 SC in control of ATALCO *Athalia rosae*/ATALAG *Athalia* in winter oilseed rape*

Pest code			ATALCO <i>Athalia rosae</i> / ATALAG <i>Athalia</i>																		
Report code			A.T/2019/085/RZ O		AI/19/RO/27/Z/A DEL		A.T/2020/116/RZ O		A.T/2020/117/RZ O		A.T/2020/118/RZ O		AI/20/RO/36/Pr/I		4I/2021		5I/2021				
Application date			26.09.2019		15.10.2019		09.10.2020		22.10.2020		22.10.2020		17.09.2020		24.09.2020		24.09.2020				
Crop stage in application			BBCH 16		BBCH 16		BBCH 14-17		BBCH 14-18		BBCH 12-14		BBCH 12-16		BBCH 14-15		BBCH 14-15				
Part rated			LARVA		LARVA		larva		larva		larva		larva		larva		larva				
Assessment date			27.09.20 19	05.10.20 19	18.10.20 19	24.20.20 19	12.10.20 20	18.10.20 20	23.10.20 20	30.10.20 20	23.01.19 00	29.10.20 20	19.09.20 20	24.09.20 20	26.09.20 20	03.10.20 20	26.09.20 20	03.10.20 20			
Days after application DA-A			1 DA-A	9 DA-A	3 DA-A	9 DA-A	3 DA-A	9 DA-A	1 DA-A	8 DA-A	1 DA-A	7 DA-A	2 DA-A	7 DA-A	2 DA-A	9 DA-A	2 DA-A	9 DA-A	Average	min	max
pest density (pcs per plant)			0.7	0.6	1.1	1.0	1.3	1.3	1.0	1.1	1.1	1.2	1.1	1.0	0.9	0.9	0.4	0.4	0.95	0.40	1.30
N o.	Name	Rate (L/h a)																			
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADE L 280 SC	0.06	50.93	60.87	81.10	76.90	61.50	52.60	53.00	57.00	59.20	62.20	86.20	69.00	50.00	19.00	26.00	45.00	56.91	19.0 0	86.2 0
3	CHR/I/ADE L 280 SC	0.08	57.69	65.89	89.20	65.40	67.20	82.80	64.10	65.50	65.20	68.50	93.60	87.00	45.00	18.00	26.00	47.00	63.01	18.0 0	93.6 0
4	CHR/I/ADE L 280 SC	0.08	44.48	71.51	92.80	91.30	67.70	85.40	70.70	71.70	66.30	74.60	94.50	88.00	64.00	50.00	47.00	74.00	72.12	44.4 8	94.5 0
	Asyistent+	0.10																			
5	CHR/I/ADE L 280 SC	0.10	61.41	68.34	91.90	93.30	75.30	92.20	73.00	74.60	72.20	73.00	89.00	89.00	54.00	32.00	40.00	81.00	72.52	32.0 0	93.3 0
6	CHR/I/ADE L 280 SC	0.12	64.60	73.29	91.00	90.40	90.30	93.80	78.40	85.20	79.40	82.60	93.60	91.00	54.00	66.00	62.00	90.00	80.35	54.0 0	93.8 0
7	CHR/I/ADE L 280 SC	0.14	74.61	81.60	93.70	92.30	90.70	95.10	82.40	90.30	80.90	85.60	97.20	91.00	79.00	70.00	62.00	92.00	84.90	62.0 0	97.2 0
8	CHR/I/ADE L 280 SC	0.16	81.42	86.32	97.30	95.20	95.10	96.60	90.00	96.20	82.70	90.00	96.30	94.00	84.00	84.00	70.00	94.00	89.57	70.0 0	97.3 0
9	Los Ovados 200 SE	0.25	50.76	65.08	94.60	91.30	49.20	68.40	59.30	70.20	41.70	52.60	98.20	93.00	50.00	6.00	27.00	33.00	59.40	6.00	98.2 0
	Asyistent+	0.10																			
10	Decis Mega 50 EW	0.15	90.02	92.43	92.80	87.50	100.00	100.00	92.50	100.00	91.70	97.20	91.70	87.00	88.00	96.00	80.00	100.00	92.93	80.0 0	100. 00
LSD(P=.05)			14.294	5.819	-	-	3.41	1.7	2.91	2.35	1.72	3.08									

**Table 2. The leaf area damage caused by ATALCO *Athalia rosae*/ATALAG *Athalia* in winter oilseed rape**

Pest code			ATALCO <i>Athalia rosae</i>	ATALAG <i>Athalia</i>	ATALCO <i>Athalia rosae</i>	ATALCO <i>Athalia rosae</i>	ATALCO <i>Athalia rosae</i>	ATALCO <i>Athalia rosae</i>			
Report code			A.T/2019/085/RZ O	AI/19/RO/27/ZI/ADE L	A.T/2020/116/RZO	A.T/2020/117/RZO	A.T/2020/118/RZ O	AI/20/RO/36/Pr/I			
Application date			26.09.2019	15.10.2019	09.10.2020	22.10.2020	22.10.2020	17.09.2020			
Crop stage in application			BBCH 16	BBCH 16	BBCH 14-17	BBCH 14-18	BBCH 12-14	BBCH 12-16			
Part rated			leaf damage	leaf damage	leaf damage	leaf damage	leaf damage	leaf damage			
Assessment date			05.10.2019	24.10.2019	09.10.2020	30.10.2020	29.10.2020	24.09.2020			
Days after application DA-A			9 DA-A	9 DA-A	10 DA-A	8 DA-A	7 DA-A	7 DA-A			
Crop stage majority			BBCH 17	BBCH 17	BBCH 14-18	BBCH 16-19	BBCH 12-16	BBCH 13-14	Average	Min.	Max.
No	Name	Rate (L/ha)									
1	Untreated Check	-	11.0	21.2	10.3	16.3	8.8	21.2	14.8	8.8	21.2
2	CHR/I/ADEL 280 SC	0.06	5.5	9.1	3.9	5.8	4.3	11.2	6.6	3.9	11.2
3	CHR/I/ADEL 280 SC	0.08	5.8	5.4	3.3	4.5	4.0	4.5	4.6	3.3	5.8
4	CHR/I/ADEL 280 SC	0.08	6.3	6.0	3.3	4.0	3.3	5.5	4.7	3.3	6.3
	Asystent+	0.10									
5	CHR/I/ADEL 280 SC	0.10	5.0	6.1	3.1	3.5	3.0	6.6	4.6	3.0	6.6
6	CHR/I/ADEL 280 SC	0.12	4.5	4.5	2.6	2.0	2.3	5.7	3.6	2.0	5.7
7	CHR/I/ADEL 280 SC	0.14	4.0	5.5	2.4	1.8	2.3	5.5	3.6	1.8	5.5
8	CHR/I/ADEL 280 SC	0.16	3.3	4.0	2.4	1.5	1.8	2.9	2.7	1.5	4.0
9	Los Ovados 200 SE	0.25	6.3	4.9	6.5	5.5	4.8	2.6	5.1	2.6	6.5
	Asystent+	0.10									
10	Decis Mega 50 EW	0.15	3.0	8.1	1.8	1.0	1.5	7.4	3.8	1.0	8.1
LSD(P=.05)			0.85	3.21-5.68	1.39	0.97	0.65	2.36-5.05			

**Table 3. The efficacy of CHR/I/ADEL 280 SC in control of BRVCBR *Brevicoryne brassicae* in winter oilseed rape**

Pest code			BRVCBR <i>Brevicoryne brassicae</i>						
Report code			A.T/2019/086/RZO	A.T/2020/119/RZO	A.T/2020/120/RZO	A.T/2020/121/RZO			
Application date			07.11.2019	23.10.2020	28.10.2020	22.10.2020			
Crop stage in application			BBCH 21-29	BBCH 14-16	BBCH 14-17	BBCH 10-12			
Part rated			larva	larva	larva	larva			
Assessment date			21.11.2019	05.11.2020	10.11.2020	05.11.2020			
Days after application DA-A			14 DA-A	13 DA-A	13 DA-A	14 DA-A	Average	min	max
pest density (pcs per plant)			9.3	7.6	8.4	7.1	8.10	7.10	9.30
No.	Name	Rate (L/ha)							
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	86.30	96.60	93.20	87.30	90.85	86.30	96.60
3	CHR/I/ADEL 280 SC	0.08	94.50	87.10	96.00	95.70	93.33	87.10	96.00
4	CHR/I/ADEL 280 SC	0.08	96.00	89.10	96.60	99.10	95.20	89.10	99.10
	Asystent+	0.10							
5	CHR/I/ADEL 280 SC	0.10	97.80	98.00	99.00	100.00	98.70	97.80	100.00
6	CHR/I/ADEL 280 SC	0.12	99.10	98.40	99.60	100.00	99.28	98.40	100.00
7	CHR/I/ADEL 280 SC	0.14	98.90	98.70	98.20	100.00	98.95	98.20	100.00
8	CHR/I/ADEL 280 SC	0.16	91.20	99.40	100.00	100.00	97.65	91.20	100.00
9	Los Ovados 200 SE	0.25	91.40	98.10	99.00	100.00	97.13	91.40	100.00
	Asystent+	0.10							
10	Decis Mega 50 EW	0.15	62.80	35.10	32.90	33.80	41.15	32.90	62.80
LSD(P=.05)			15.310	9.270	11.440	2.490			

**Table 4. The efficacy of CHR/I/ADEL 280 SC in control of MYZUPE *Myzus persicae* in winter oilseed rape**

Pest code			MYZUPE <i>Myzus persicae</i>						
Report code			A.T/2019/086/RZO	4 I/2020	A.T/2020/121/RZO	6I/2021			
Application date			07.11.2019	04.10.2019	22.10.2020	09.10.2020			
Crop stage in application			BBCH 21	BBCH 14-15	BBCH 10-12	BBCH 17-18			
Part rated			LARVA	LARVA	larva	ADULT			
Assessment date			21.11.2019	17.11.2019	05.11.2020	22.10.2020			
Days after application DA-A			14 DA-A	13 DA-A	14 DA-A	13 DA-A	Average	min	max
pest density (pcs per plant)			5.3	13.7	5.80	1.46	6.57	1.46	13.70
No.	Name	Rate (L/ha)							
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	90.40	35.00	71.40	43.00	59.95	35.00	90.40
3	CHR/I/ADEL 280 SC	0.08	98.90	49.00	88.30	63.00	74.80	49.00	98.90
4	CHR/I/ADEL 280 SC	0.08	100.00	52.00	100.00	72.00	81.00	52.00	100.00
	Asystent+	0.10							
5	CHR/I/ADEL 280 SC	0.10	96.90	56.00	100.00	64.00	79.23	56.00	100.00
6	CHR/I/ADEL 280 SC	0.12	100.00	61.00	100.00	76.00	84.25	61.00	100.00
7	CHR/I/ADEL 280 SC	0.14	100.00	67.00	100.00	83.00	87.50	67.00	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	69.00	100.00	80.00	87.25	69.00	100.00
9	Los Ovados 200 SE	0.25	100.00	63.00	100.00	81.00	86.00	63.00	100.00
	Asystent+	0.10							
10	Decis Mega 50 EW	0.15	73.50	54.00	71.90	39.00	59.60	39.00	73.50
LSD(P=.05)			10.760	3.700	2.120	-			

**Table 5. The efficacy of CHR/I/ADEL 280 SC in control of aphids in winter oilseed rape (aphids summary table)**

Pest code			MYZUPE <i>Myzus persicae</i>		BRVCBR <i>Brevicoryne brassicae</i>	APHISP <i>Aphidula</i> sp.		BRVCBR <i>Brevicoryne brassicae</i>			MYZUPE <i>Myzus persicae</i>				
Report code			A.T/2019/086/RZO	4 I/2020	A.T/2019/086/RZO	AI/20/RO/36/ZI/2	AI/20/RO/36/Br/3	A.T/2020/119/RZO	A.T/2020/120/RZO	A.T/2020/121/RZO	A.T/2020/121/RZO	6I/2021			
Application date			07.11.2019	04.10.2019	07.11.2019	21.09.2020	18.09.2020	23.10.2020	28.10.2020	22.10.2020	22.10.2020	09.10.2020			
Crop stage in application			BBCH 21-29	BBCH 14-15	BBCH 21-29	BBCH 12-13	BBCH 14-15	BBCH 14-16	BBCH 14-17	BBCH 10-12	BBCH 10-12	BBCH 17-18			
Part rated			LARVA	LARVA	LARVA	NYMPH; LARVA; ADULT	NYMPH; LARVA; ADULT	larva	larva	larva	larva	AD- ULT			
Assessment date			21.11.2019	17.11.2019	21.11.2019	05.10.2020	02.10.2020	05.11.2020	10.11.2020	05.11.2020	05.11.2020	22.10.2020			
Days after application DA-A			14 DA-A	13 DA-A	14 DA-A	14 DA-A	14 DA-A	13 DA-A	13 DA-A	14 DA-A	14 DA-A	13 DA-A	Ave- rage	min	max
pest density (pcs per plant)			5.3	13.7	9.3	0.6	0.9	7.6	8.4	7.1	5.80	1.46	6.02	0.60	13.70
N o.	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	0.00	0.00	0.00
2	CHR/I/A DEL 280 SC	0.06	90.40	35.00	86.30	71.90	89.10	96.60	93.20	87.30	71.40	43.00	76.42	35.00	96.60
3	CHR/I/A DEL 280 SC	0.08	98.90	49.00	94.50	84.20	91.30	87.10	96.00	95.70	88.30	63.00	84.80	49.00	98.90
4	CHR/I/A DEL 280 SC	0.08	100.00	52.00	96.00	89.50	93.50	89.10	96.60	99.10	100.00	72.00	88.78	52.00	100.00
	Asystent+	0.10													
5	CHR/I/A DEL 280 SC	0.10	96.90	56.00	97.80	86.00	96.70	98.00	99.00	100.00	100.00	64.00	89.44	56.00	100.00
6	CHR/I/A DEL 280 SC	0.12	100.00	61.00	99.10	89.50	96.70	98.40	99.60	100.00	100.00	76.00	92.03	61.00	100.00

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7	CHR/I/A DEL 280 SC	0.14	100.00	67.00	98.90	93.00	97.80	98.70	98.20	100.00	100.00	83.00	93.66	67.00	100.00
8	CHR/I/A DEL 280 SC	0.16	100.00	69.00	91.20	91.20	98.90	99.40	100.00	100.00	100.00	80.00	92.97	69.00	100.00
9	Los Ova- dos 200 SE	0.25	100.00	63.00	91.40	89.50	98.90	98.10	99.00	100.00	100.00	81.00	92.09	63.00	100.00
	Asystent+	0.10													
10	Decis Mega 50 EW	0.15	73.50	54.00	62.80	82.50	92.40	35.10	32.90	33.80	71.90	39.00	57.79	32.90	92.40
LSD(P=.05)			10.760	3.700	15.310	■	■	9.270	11.440	2.490	2.120	■			

**Table 6. The efficacy of CHR/I/ADEL 280 SC in control of CEUTQU *Ceutorhynchus quadridens*, syn. *C. pallidactylus* in winter oilseed rape**

Pest code			CEUTQU <i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>												
Report code			AI/20/RO/7/NW/A DEL	A.T/2020/027/ RZO	A.T/2021/006/ RZO	A.T/2021/007/ RZO	A.T/2021/008/ RZO	AI/21/RO/4/P r/01	AI/21/RO/4/Z l/02	AI/21/RO/4/B r/03	9I/2021	10I/202 1			
Application date			23.03.2020	08.04.2020	17.04.2021	31.03.2021	12.04.2021	13.04.2021	31.03.2021	01.04.2021	20.04.20 21	20.04.20 21			
Crop stage in application			BBCH 30-34	BBCH 50-55	BBCH 39-50	BBCH 30-35	BBCH 35-39	BBCH 35	BBCH 30	BBCH 39	BBCH 39	BBCH 39			
Part rated			LARTOT P	LARVA P	ADULT	ADULT	ADULT	larva	adult	adult	adult	adult			
Assessment date			11.05.2020	06.05.2020	18.05.2021	26.05.2021	21.05.2021	17.05.2021	14.05.2021	14.05.2021	27.05.20 21	28.05.20 21			
Days after application DA-A			49 DA-A	28 DA-A	31 DA-A	56 DA-A	39 DA-A	34 DA-A	44 DA-A	43 DA-A	37 DA-A	38 DA-A	Ave- rage	Min.	Max.
PESSEV (number of larva pest forms on stem)			3.90	6.30	8.40	7.50	6.30	6.20	7.70	6.20	14.50	34.00	10.10	3.90	34.00
N o.	Name	Rate (L, kg/ha)													
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0
2	CHR/I/AD EL 280 SC	0.06	39.10	44.60	27.90	39.70	49.70	48.70	52.20	47.50	4.00	40.00	39.34	4.00	52.20
3	CHR/I/AD EL 280 SC	0.08	36.80	52.40	43.30	42.30	51.80	63.90	77.50	78.00	45.00	46.00	53.70	36.80	78.00
4	CHR/I/AD EL 280 SC	0.08	50.40	63.50	58.20	57.50	67.70	87.50	79.70	68.40	66.00	68.00	66.69	50.40	87.50
	Asystent+	0.10													
5	CHR/I/AD EL 280 SC	0.10	30.30	62.70	59.20	47.00	52.80	64.80	82.90	65.20	53.00	58.00	57.59	30.30	82.90
6	CHR/I/AD EL 280 SC	0.12	62.60	62.40	72.20	62.40	59.00	78.10	74.70	71.20	57.00	59.00	65.86	57.00	78.10
7	CHR/I/AD EL 280 SC	0.14	62.60	68.70	72.90	65.70	70.10	80.20	88.30	74.70	64.00	66.00	71.32	62.60	88.30
8	CHR/I/AD EL 280 SC	0.16	57.30	69.90	84.30	69.70	73.30	72.10	85.40	87.50	66.00	68.00	73.35	57.30	87.50
9	Decis Mega 50 EW	0.15	77.00	81.30	85.80	88.80	77.70	72.10	88.30	90.10	58.00	61.00	78.01	58.00	90.10
10	Inazuma 130 WG	0.20	74.50	74.90	86.90	75.90	65.30	80.20	87.20	85.30	72.00	65.00	76.72	65.00	87.20
LSD(P=.05)			1.05 - 1.47	0.89	15.53	8.46	17.53	1.24-2.16	1.77-3.06	1.83-2.97					

**Table 7. The efficacy of CHR/I/ADEL 280 SC in reducing plant damage caused by CEUTQU *Ceutorhynchus quadridens*, syn. *C. pallidactylus* in winter oilseed rape**

Pest code			CEUTQU <i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>								
Report code			AI/20/RO/7/NW/ADEL	AI/21/RO/4/Pr/01	AI/21/RO/4/ZI/02	AI/21/RO/4/Br/03	9I/2021	10I/2021			
Application date			23.03.2020	13.04.2021	31.03.2021	01.04.2021	20.04.2021	20.04.2021			
Crop stage in application			BBCH 30-34	BBCH 35	BBCH 30	BBCH 39	BBCH 39	BBCH 39			
Part rated			Plant P	larva	adult	adult	adult	adult			
Assessment date			11.05.2020	17.05.2021	14.05.2021	14.05.2021	28.05.2021	28.05.2021			
Days after application DA-A			49 DA-A	34 DA-A	44 DA-A	43 DA-A	38 DA-A	38 DA-A	Average	Min.	Max.
PESSEV (number of larva pest forms on stem)			8.50	9.30	9.80	8.30	14.50	34.00	14.07	8.30	34.00
No.	Name	Rate (L, kg/ha)									
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	29.40	56.80	46.20	45.50	32.00	49.00	43.15	29.40	56.80
3	CHR/I/ADEL 280 SC	0.08	41.20	73.00	64.10	63.60	46.00	48.00	55.98	41.20	73.00
4	CHR/I/ADEL 280 SC	0.08	50.00	70.30	64.10	60.60	67.00	63.00	62.50	50.00	70.30
	Asystent+	0.10									
5	CHR/I/ADEL 280 SC	0.10	58.80	56.80	71.80	54.50	64.00	57.00	60.48	54.50	71.80
6	CHR/I/ADEL 280 SC	0.12	67.60	64.90	69.20	54.50	66.00	60.00	63.70	54.50	69.20
7	CHR/I/ADEL 280 SC	0.14	64.70	78.40	82.10	63.60	73.00	68.00	71.63	63.60	82.10
8	CHR/I/ADEL 280 SC	0.16	73.50	81.10	79.50	78.80	72.00	72.00	76.15	72.00	81.10
9	Decis Mega 50 EW	0.15	85.30	78.40	82.10	81.80	68.00	63.00	76.43	63.00	85.30
10	Inazuma 130 WG	0.20	85.30	83.80	79.50	81.80	71.00	69.00	78.40	69.00	85.30
LSD(P=.05)			1.86	2.10	2.12	2.51	-	-			



**Table 8. The efficacy of CHR/I/ADEL 280 SC in reducing stem damage caused by CEUTQU *Ceutorhynchus quadridens*, syn. *C. pallidactylus* in winter oilseed rape**

Pest code			CEUTQU <i>Ceutorhynchus quadridens</i> , syn. <i>C. pallidactylus</i>								
Report code			AI/20/RO/7/NW/ADEL	AI/21/RO/4/Pr/01	AI/21/RO/4/Z1/02	AI/21/RO/4/Br/03	9I/2021	10I/2021			
Application date			23.03.2020	13.04.2021	31.03.2021	01.04.2021	20.04.2021	20.04.2021			
Crop stage in application			BBCH 30-34	BBCH 35	BBCH 30	BBCH 39	BBCH 39	BBCH 39			
Part rated			stem	larva	adult	adult	adult	adult			
Assessment date			11.05.2020	17.05.2021	14.05.2021	14.05.2021	28.05.2021	28.05.2021			
Days after application DA-A			49 DA-A	34 DA-A	44 DA-A.3	43 DA-A	38 DA-A	38 DA-A	Average	Min.	Max.
PESSEV (number of larva pest forms on stem)			5.00	10.80	14.60	10.40	14.50	34.00	14.88	5.00	34.00
No.	Name	Rate (L, kg/ha)									
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	32.30	57.70	51.70	46.10	45.00	33.00	44.30	32.30	57.70
3	CHR/I/ADEL 280 SC	0.08	45.10	72.80	73.20	67.70	41.00	51.00	58.47	41.00	73.20
4	CHR/I/ADEL 280 SC	0.08	46.30	77.20	69.90	69.60	70.00	65.00	66.33	46.30	77.20
	Asystent+	0.10									
5	CHR/I/ADEL 280 SC	0.10	48.40	68.90	78.30	71.70	68.00	61.00	66.05	48.40	78.30
6	CHR/I/ADEL 280 SC	0.12	57.00	66.60	74.30	69.60	73.00	65.00	67.58	57.00	74.30
7	CHR/I/ADEL 280 SC	0.14	59.70	80.30	79.80	77.80	83.00	74.00	75.77	59.70	83.00
8	CHR/I/ADEL 280 SC	0.16	75.50	77.20	75.20	82.40	74.00	77.00	76.88	74.00	82.40
9	Decis Mega 50 EW	0.15	75.50	80.30	87.70	87.10	73.00	70.00	78.93	70.00	87.70
10	Inazuma 130 WG	0.20	79.80	82.30	76.90	81.60	76.00	67.00	77.27	67.00	82.30
LSD(P=.05)			1.04 - 2.04	1.37-3.78	1.79-6.08	1.99-5.23					

**Table 9. The efficacy of CHR/I/ADEL 280 SC in control of CEUTNA *Ceutorhynchus napi* in winter oilseed rape**

Pest code			CEUTNA ( <i>Ceutorhynchus napi</i> )											
Report code			AI/20/RO/7/N W/ADEL	A.T/2021/001/ RZO	A.T/2021/002/ RZO	A.T/2021/003/ RZO	A.T/2021/004/ RZO	A.T/2021/005/ RZO	AI/21/RO/4/Pr/ 01	AI/21/RO/4/ZI/ 02	AI/21/RO/4/Br/ 03			
Application date			23.03.2020	26.03.2021	30.03.2021	30.03.2021	30.03.2021	19.04.2021	13.04.2021	31.03.2021	01.04.2021			
Crop stage in application			BBCH 30-34	BBCH 32-35	BBCH 32-35	BBCH 33-37	BBCH 30-35	BBCH 35-39	BBCH 35	BBCH 30	BBCH 39			
Part rated			LARTOT P	LARVA	LARVA	ADULT	ADULT	ADULT	larva	adult	adult			
Assessment date			11.05.2020	12.05.2021	21.05.2021	02.06.2021	18.05.2021	03.06.2021	17.05.2021	14.05.2021	14.05.2021			
Days after application DA-A			49 DA-A	47 DA-A	52 DA-A	64 DA-A	49 DA-A	45 DA-A	34 DA-A	44 DA-A	43 DA-A	Average	Min.	Max.
PESSEV (number of larva pest forms on stem)			3.90	5.60	4.30	6.30	9.10	2.00	6.20	7.70	6.20	5.70	2.00	9.10
No.	Name	Rate (L, kg/ha)												
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	39.10	50.50	32.60	50.20	46.80	57.70	48.70	52.20	47.50	47.26	32.60	57.70
3	CHR/I/ADEL 280 SC	0.08	36.80	51.70	34.10	50.70	53.00	68.90	63.90	77.50	78.00	57.18	34.10	78.00
4	CHR/I/ADEL 280 SC	0.08	50.40	56.10	37.00	57.70	61.90	82.80	87.50	79.70	68.40	64.61	37.00	87.50
	Asystent+	0.10												
5	CHR/I/ADEL 280 SC	0.10	30.30	65.30	41.50	55.60	60.60	71.30	64.80	82.90	65.20	59.72	30.30	82.90
6	CHR/I/ADEL 280 SC	0.12	62.60	70.30	41.50	61.70	62.80	71.60	78.10	74.70	71.20	66.06	41.50	78.10
7	CHR/I/ADEL 280 SC	0.14	62.60	74.90	60.40	68.20	63.10	77.00	80.20	88.30	74.70	72.16	60.40	88.30
8	CHR/I/ADEL 280 SC	0.16	57.30	76.70	66.20	75.50	66.20	82.10	72.10	85.40	87.50	74.33	57.30	87.50
9	Decis Mega 50 EW	0.15	77.00	83.90	72.40	89.40	85.50	84.30	72.10	88.30	90.10	82.56	72.10	90.10
10	Inazuma 130 WG	0.20	74.50	64.70	64.70	73.00	71.00	68.90	80.20	87.20	85.30	74.39	64.70	87.20
LSD(P=.05)			1.05 - 1.47	13.52	13.52	10.11	13.54	14.34	1.24-2.16	1.77-3.06	1.83-2.97			

**Table 10. The efficacy of CHR/I/ADEL 280 SC in reducing plant damage caused by CEUTNA *Ceutorhynchus napi* in winter oilseed rape**

Pest code			CEUTNA ( <i>Ceutorhynchus napi</i> )						
Report code			AI/20/RO/7/NW/ADEL	AI/21/RO/4/Pr/01	AI/21/RO/4/Z1/02	AI/21/RO/4/Br/03			
Application date			23.03.2020	13.04.2021	31.03.2021	01.04.2021			
Crop stage in application			BBCH 30-34	BBCH 35	BBCH 30	BBCH 39			
Part rated			plant	larva	adult	adult			
Assessment date			11.05.2020	17.05.2021	14.05.2021	14.05.2021			
Days after application DA-A			49 DA-A	34 DA-A	44 DA-A	43 DA-A	Average	Min.	Max.
PESSEV (number of larva pest forms on stem)			8.50	9.30	9.80	8.30	8.98	8.30	9.80
No.	Name	Rate (L, kg/ha)							
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	29.40	56.80	46.20	45.50	44.48	29.40	56.80
3	CHR/I/ADEL 280 SC	0.08	41.20	73.00	64.10	63.60	60.48	41.20	73.00
4	CHR/I/ADEL 280 SC	0.08	50.00	70.30	64.10	60.60	61.25	50.00	70.30
	Asystent+	0.10							
5	CHR/I/ADEL 280 SC	0.10	58.80	56.80	71.80	54.50	60.48	54.50	71.80
6	CHR/I/ADEL 280 SC	0.12	67.60	64.90	69.20	54.50	64.05	54.50	69.20
7	CHR/I/ADEL 280 SC	0.14	64.70	78.40	82.10	63.60	72.20	63.60	82.10
8	CHR/I/ADEL 280 SC	0.16	73.50	81.10	79.50	78.80	78.23	73.50	81.10
9	Decis Mega 50 EW	0.15	85.30	78.40	82.10	81.80	81.90	78.40	85.30
10	Inazuma 130 WG	0.20	85.30	83.80	79.50	81.80	82.60	79.50	85.30
LSD(P=.05)			1.86	2.10	2.12	2.51			

**Table 11. The efficacy of CHR/I/ADEL 280 SC in reducing stem damage caused by CEUTNA *Ceutorhynchus napi* in winter oilseed rape**

Pest code			CEUTNA ( <i>Ceutorhynchus napi</i> )						
Report code			AI/20/RO/7/NW/ADEL	AI/21/RO/4/Pr/01	AI/21/RO/4/ZI/02	AI/21/RO/4/Br/03			
Application date			23.03.2020	13.04.2021	31.03.2021	01.04.2021			
Crop stage in application			BBCH 30-34	BBCH 35	BBCH 30	BBCH 39			
Part rated			stem	larva	adult	adult			
Assessment date			11.05.2020	17.05.2021	14.05.2021	14.05.2021			
Days after application DA-A			49 DA-A	34 DA-A	44 DA-A	43 DA-A	Average	Min.	Max.
PESSEV (number of larva pest forms on stem)			5.00	10.80	14.60	10.40	10.20	5.00	14.60
No.	Name	Rate (L, kg/ha)							
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	32.30	57.70	51.70	46.10	46.95	32.30	57.70
3	CHR/I/ADEL 280 SC	0.08	45.10	72.80	73.20	67.70	64.70	45.10	73.20
4	CHR/I/ADEL 280 SC	0.08	46.30	77.20	69.90	69.60	65.75	46.30	77.20
	Asystent+	0.10							
5	CHR/I/ADEL 280 SC	0.10	48.40	68.90	78.30	71.70	66.83	48.40	78.30
6	CHR/I/ADEL 280 SC	0.12	57.00	66.60	74.30	69.60	66.88	57.00	74.30
7	CHR/I/ADEL 280 SC	0.14	59.70	80.30	79.80	77.80	74.40	59.70	80.30
8	CHR/I/ADEL 280 SC	0.16	75.50	77.20	75.20	82.40	77.58	75.20	82.40
9	Decis Mega 50 EW	0.15	75.50	80.30	87.70	87.10	82.65	75.50	87.70
10	Inazuma 130 WG	0.20	79.80	82.30	76.90	81.60	80.15	76.90	82.30
LSD(P=.05)			1.04 - 2.04	1.37-3.78	1.79-6.08	1.99-5.23			

Table 12. The efficacy of CHR/I/ADEL 280 SC in control of MELIAE *Brassicogethes aeneus* syn. *Meligethes aeneus* in winter oilseed rape

Pest code		MELIAE <i>Brassicogethes aeneus</i> syn. <i>Meligethes aeneus</i>						
Report code	A.T/2020/029/RZO	A.T/2020/030/RZO	A.T/2021/009/RZO	A.T/2021/010/RZO	CH-WR-I-ADEL-2021-01	CH-WR-I-ADEL-2021-02	SRPL21-401-336FE	SRPL21-402-336FE

Application date			10.04.2020	10.04.2020	22.04.2020	22.04.2020	10.05.2021		30.04.2021		24.04.2021		24.04.2021		11.05.2021		12.05.2021				
Crop stage in application			BBC H 50-60	BBCH 50-60	BBCH 55-59	BBCH 55-59	BBCH 51-55		BBCH 55-59		BBCH 55		BBCH 55		BBCH 51-53		BBCH 57-59				
Part rated			Adult P	Adult P	Adult P	Adult P	ADULT		ADULT		ADULT	ADULT	ADULT	ADULT	INSECT P	INSECT P	ADULT P	ADULT P			
Assessment date			11.04.2020	16.04.2020	23.04.2020	27.04.2020	11.05.2021	14.05.2021	01.05.2021	04.05.2021	26.04.2021	29.04.2021	26.04.2021	29.04.2021	12.05.2021	17.05.2021	13.05.2021	17.05.2021			
Days after application DA-A			1 DA-A	6 DA-A	1 DA-A	5 DA-A	1 DA-A	4 DA-A	1 DA-A	4 DA-A	2 DA-A	5 DA-A	2 DA-A	5 DA-A	1 DA-A	6 DA-A	1 DA-A	5 DA-A			
PESSEV (number of larva pest forms on stem)			3.90	4.60	2.00	2.20	3.10	1.00	2.30	0.50	4.50	4.60	5.10	5.20	1.49	2.00	3.19	3.24	3.06	0.50	5.20
N o.	Name	Rate (L, kg/ha)																			
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	CHR/I/AD EL 280 SC	0.06	51.30	69.10	27.10	54.30	74.90	45.40	75.40	55.70	81.40	82.80	82.40	83.40	84.41	55.48	59.07	52.81	64.69	27.10	84.41
3	CHR/I/AD EL 280 SC	0.08	59.90	71.20	36.90	62.40	76.60	47.20	89.00	68.90	84.60	85.00	85.50	85.70	83.57	50.56	62.80	59.13	69.31	36.90	89.00
4	CHR/I/AD EL 280 SC +Asystent +	0.08 + 0.10	61.30	67.10	45.20	71.40	82.60	58.50	91.70	70.40	87.40	89.20	88.00	87.90	82.42	50.35	76.04	67.97	73.59	45.20	91.70
5	CHR/I/AD EL 280 SC	0.10	58.80	70.80	39.00	67.40	87.50	62.10	89.20	79.10	92.40	93.50	92.20	94.00	82.00	50.72	74.14	64.17	74.81	39.00	94.00
6	CHR/I/AD EL 280 SC	0.12	67.70	83.60	48.70	67.20	88.10	65.10	92.70	79.40	92.90	94.60	93.40	94.50	85.41	56.49	84.89	82.57	79.83	48.70	94.60
7	CHR/I/AD EL 280 SC	0.14	75.70	84.60	54.80	76.60	89.20	65.20	92.50	80.50	94.20	96.30	95.10	97.00	90.29	50.97	94.40	94.06	83.21	50.97	97.00
8	CHR/I/AD EL 280 SC	0.16	82.00	83.80	57.10	80.00	92.10	66.80	93.50	81.40	94.70	96.10	95.70	96.80	91.52	51.05	98.42	96.62	84.85	51.05	98.42
9	Los Ova-dos 200 SE +Asystent +	0.25 0.10	76.20	77.50	53.10	80.30	50.60	47.90	89.30	77.60	93.70	95.10	94.20	96.00	90.48	53.67	81.19	73.97	76.93	47.90	96.00
10	Decis Mega 50 EW	0.15	58.30	69.80	44.40	76.70	91.80	52.60	77.90	56.50	84.60	95.10	83.70	85.00	90.21	61.71	76.89	67.19	73.28	44.40	95.10
11	Inazuma 130 WG	0.20	64.00	70.50	45.80	69.40	89.90	44.10	89.50	68.20	94.00	83.80	94.60	95.60	91.24	51.43	94.84	93.12	77.50	44.10	95.60
LSD(P=.05)			14.36	10.9	9.32	5.21	7.7	17.95	4.11	11.21	1.73	95.3	1.34-1.43	1.43	7.917	28.737					

**Table 13. The efficacy of CHR/I/ADEL 280 SC in control of CEUTPL *Ceutorhynchus assimilis* in winter oilseed rape**

Pest code			CEUTPL ( <i>Ceutorhynchus assimilis</i> )										
Report code			A.T/2020/031/RZ O	A.T/2020/032/RZO	A.T/2021/064/RZ O	A.T/2021/065/RZ O	CH-WR-I- ADEL- 2021-03	CH-WR-I- ADEL- 2021-04	11I/2021	12I/2021			
Application date			24.04.2020	07.05.2020	19.05.2021	12.05.2021	13.05.2021	12.05.2021	14.05.2021	14.05.2021			
Crop stage in application			BBCH 60-65	BBCH 65-67	BBCH 63-67	BBCH 65-67	BBCH 65	BBCH 65-67	BBCH 65-67	BBCH 65-67			
Part rated			LARVA	LARVA	ADULT	ADULT	ADULT	ADULT	LARVA	LARVA			
Assessment date			18.05.2020	29.05.2020	15.06.2021	08.06.2021	08.06.2021	07.06.2021	11.06.2021	11.06.2021			
Days after application DA-A			24 DA-A	22 DA-A	27 DA-A	27 DA-A	26 DA-A	26 DA-A	28 DA-A	28 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			11.00	10.00	1.30	1.00	0.60	0.50	0.03	0.08	3.06	0.03	11.00
No.	Name	Rate (L, kg/ha)											
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	45.50	50.00	58.50	49.30	72.90	66.70	38.00	61.00	55.24	38.00	72.90
3	CHR/I/ADEL 280 SC	0.08	40.90	60.00	58.90	51.40	82.40	81.10	77.00	74.00	65.71	40.90	82.40
4	CHR/I/ADEL 280 SC	0.08	45.50	60.00	63.60	63.30	89.00	89.10	100.00	84.00	74.31	45.50	100.00
	Asystent+	0.10											
5	CHR/I/ADEL 280 SC	0.10	63.60	62.50	66.20	62.00	94.10	94.70	100.00	87.00	78.76	62.00	100.00
6	CHR/I/ADEL 280 SC	0.12	72.70	70.00	72.20	64.30	93.30	91.60	100.00	90.00	81.76	64.30	100.00
7	CHR/I/ADEL 280 SC	0.14	70.50	82.50	75.60	66.80	94.10	92.80	100.00	87.00	83.66	66.80	100.00
8	CHR/I/ADEL 280 SC	0.16	75.00	87.50	74.50	68.30	86.20	89.60	100.00	81.00	82.76	68.30	100.00
9	Los Ovados 200 SE	0.25	65.90	35.00	69.70	52.40	91.70	92.40	85.00	84.00	72.01	35.00	92.40
	Asystent+	0.10											
10	Decis Mega 50 EW	0.15	31.80	80.00	50.70	65.80	63.10	64.40	92.00	77.00	65.60	31.80	92.00
11	Inazuma 130 WG	0.20	45.50	55.00	65.40	68.30	86.70	88.60	100.00	90.00	74.94	45.50	100.00
LSD(P=.05)			0.33	0.15	11.49	15.45	7.11	5.24-9.08					

**Table 14. The efficacy of CHR/I/ADEL 280 SC in control eggs of CEUTPL *Ceutorhynchus assimilis* on stem in winter oilseed rape**

Pest code	CEUTPL ( <i>Ceutorhynchus assimilis</i> )	
Report code	11I/2021	12I/2021

Application date			14.05.2021	14.05.2021			
Crop stage in application			BBCH 65-67	BBCH 65-67			
Part rated			POD	POD			
Assessment date			11.06.2021	11.06.2021			
Days after application DA-A			28 DA-A	28 DA-A	Average	min.	max.
No.	Name	Rate (L, kg/ha)					
1	Untreated Check		0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	27.00	49.00	38.00	27.00	49.00
3	CHR/I/ADEL 280 SC	0.08	89.00	75.00	82.00	75.00	89.00
4	CHR/I/ADEL 280 SC	0.08	90.00	84.00	87.00	84.00	90.00
	Asystent+	0.10					
5	CHR/I/ADEL 280 SC	0.10	85.00	78.00	81.50	78.00	85.00
6	CHR/I/ADEL 280 SC	0.12	91.00	82.00	86.50	82.00	91.00
7	CHR/I/ADEL 280 SC	0.14	100.00	87.00	93.50	87.00	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	82.00	91.00	82.00	100.00
9	Los Ovados 200 SE	0.25	79.00	69.00	74.00	69.00	79.00
	Asystent+	0.10					
10	Decis Mega 50 EW	0.15	92.00	75.00	83.50	75.00	92.00
11	Inazuma 130 WG	0.20	100.00	85.00	92.50	85.00	100.00
LSD(P=.05)							

Table 15. The efficacy of CHR/I/ADEL 280 SC in control of DASYBR *Dasineura brassicae* in winter oilseed rape

Pest code	DASYBR ( <i>Dasineura brassicae</i> )						
Report code	A.T/2020/031/RZ O	A.T/2020/085/RZ O	A.T/2021/066/RZ O	CH-WR-I- ADEL-2021-03	CH-WR-I- ADEL-2021-04	11/2021	12/2021
Application date	24.04.2020	22.05.2020	24.05.2021	13.05.2021	12.05.2021	14.05.2021	14.05.2021
Crop stage in application	BBCH 60-65	BBCH 67-70	BBCH 65-69	BBCH 65	BBCH 65-67	BBCH 65-67	BBCH 65-67
Part rated	Pod C	Pod C	ADULT	ADULT	ADULT	LARVA	LARVA

Assessment date			08.05.2020	05.06.2020	07.06.2021	08.06.2021	07.06.2021	11.06.2021	11.06.2021			
Days after application DA-A			14 DA-A	14 DA-A	14 DA-A	26 DA-A	26 DA-A	28 DA-A	28 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			1.40	59.50	1.10	0.60	0.50	0.33	0.58	9.14	0.33	59.50
No.	Name	Rate (L, kg/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/I/ADEL 280 SC	0.06	70.80	56.30	74.30	72.70	70.80	27.00	40.00	58.84	27.00	74.30
3	CHR/I/ADEL 280 SC	0.08	75.20	55.00	76.20	81.40	76.20	61.00	50.00	67.86	50.00	81.40
4	CHR/I/ADEL 280 SC	0.08	79.60	64.30	82.30	83.40	81.20	73.00	57.00	74.40	57.00	83.40
	Asystent+	0.10										
5	CHR/I/ADEL 280 SC	0.10	84.70	66.00	84.90	88.40	83.90	66.00	59.00	76.13	59.00	88.40
6	CHR/I/ADEL 280 SC	0.12	86.90	67.20	86.90	87.60	83.70	64.00	70.00	78.04	64.00	87.60
7	CHR/I/ADEL 280 SC	0.14	82.50	69.30	85.50	88.20	84.20	74.00	69.00	78.96	69.00	88.20
8	CHR/I/ADEL 280 SC	0.16	96.40	71.80	87.60	85.40	85.50	78.00	88.00	84.67	71.80	96.40
9	Los Ovados 200 SE	0.25	100.00	74.40	90.40	88.40	87.20	72.00	50.00	80.34	50.00	100.00
	Asystent+	0.10										
10	Decis Mega 50 EW	0.15	67.90	57.10	66.20	60.30	52.70	74.00	82.00	65.74	52.70	82.00
11	Inazuma 130 WG	0.20	70.10	64.30	75.20	85.10	82.40	83.00	72.00	76.01	64.30	85.10
LSD(P=.05)			0.33	0.20	9.09	6.85	7.30					

Table 16. The efficacy of CHR/I/ADEL 280 SC in control of MACSAV Sitobion avenae in winter wheat

Pest code	MACSAV (Sitobion avenae)															
Report code	SRPL20-413-336FE		SRPL20-414-336FE		A.T/2021/088/PO		A.T/2021/089/PO		A.T/2021/090/PO		A.T/2021/091/PO		SRPL21-450-336FE		SRPL21-451-336FE	
Application date	30.06.2020		06.07.2020		23.06.2021		24.06.2021		28.06.2021		26.06.2021		30.06.2021		30.06.2021	
Crop stage	BBCH 71-75		BBCH 75-76		BBCH 73-75		BBCH 65-71		BBCH 69-73		BBCH 67-69		BBCH 73-75		BBCH 68-71	
Part rated	ADULT P	ADULT P	ADULT P	ADULT P	all stages	all stages	all stages	all stages	adult	adult	all stages	all stages	insect	insect	insect	insect
Assessment date	3 DA-A	7 DA-A	2 DA-A	7 DA-A	24.06.2	01.07.2	25.06.2	02.07.2	30.06.2	06.07.2	29.06.2	05.07.2	03.07.2	08.07.2	01.07.2	07.07.2



							021	021	021	021	021	021	021	021	021	021	021				
Days after application DA-A			03.07.2 020	07.07.2 020	06.07.2 020	11.07.2 020	1 DA-A	8 DA-A	1 DA-A	8 DA-A	2 DA-A	8 DA-A	3 DA-A	9 DA-A	3 DA-A	8 DA-A	1 DA-A	7 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			4.85	1.41	4.51	2.11	6.2	6.5	1.1	1.2	5.1	4.2	4.3	4	2.32	1.28	6.98	5.1	3.82	1.10	6.98
N o.	Name	Rate (L, kg/ha)					↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/A DEL 280 SC	0.06	50.26	29.71	54.36	46.50	67.00	75.80	88.50	100.00	87.20	90.40	37.60	76.10	71.09	77.44	96.78	94.42	71.45	29.71	100.00
3	CHR/I/A DEL 280 SC	0.08	69.07	32.87	71.16	53.44	74.90	83.60	97.20	100.00	88.00	100.00	45.10	89.60	78.98	92.42	98.23	96.66	79.45	32.87	100.00
4	CHR/I/A DEL 280 SC	0.08	78.37	62.82	79.78	61.66	84.80	100.00	100.00	100.00	95.70	100.00	46.20	100.00	84.57	96.37	99.32	97.09	86.67	46.20	100.00
	Asystent+	0.10																			
5	CHR/I/A DEL 280 SC	0.10	82.71	54.77	84.65	57.17	88.20	96.70	100.00	100.00	95.60	100.00	73.00	97.80	90.04	100.00	98.88	98.54	88.63	54.77	100.00
6	CHR/I/A DEL 280 SC	0.12	85.35	63.01	90.13	71.04	90.70	100.00	100.00	100.00	97.50	100.00	82.30	100.00	90.53	100.00	99.44	97.17	91.70	63.01	100.00
7	CHR/I/A DEL 280 SC	0.14	90.70	68.76	91.36	80.12	95.00	100.00	100.00	100.00	98.20	100.00	98.30	100.00	93.04	100.00	100.00	99.32	94.68	68.76	100.00
8	CHR/I/A DEL 280 SC	0.16	94.65	75.83	94.19	86.83	95.60	100.00	100.00	100.00	96.80	100.00	100.00	100.00	94.14	100.00	100.00	100.00	96.13	75.83	100.00
9	Decis Mega 50 EW	0.13	94.36	66.99	94.74	83.58	89.90	94.10	100.00	100.00	97.20	100.00	92.00	100.00	95.11	100.00	100.00	99.42	94.21	66.99	100.00
10	Fastac active 50 ME	0.30	95.75	74.26	95.03	88.31	88.60	90.10	100.00	100.00	99.10	100.00	99.10	100.00	94.58	100.00	100.00	99.62	95.28	74.26	100.00
LSD(P=.05)			7.473	20.562	11.315	16.438	3.430	1.850	6.850	↓	5.080	0.920	2.560	1.570	8.168	6.340	0.821	2.452			

Table 17. The efficacy of CHR/I/ADEL 280 SC in control of METODR *Metopolophium dirhodum* in winter wheat

Pest code	METODR <i>Metopolophium dirhodum</i>
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Report code			A.T/2021/089/PO				
Application date			24.06.2021				
Crop stage			BBCH 65-71				
Part rated			all stages	all stages			
Assessment date			25.06.2021	02.07.2021			
Days after application DA-A			1 DA-A	8 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			2.2	3.0	2.60	2.20	3.00
No.	Name	Rate (L, kg/ha)					
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	100.00	100.00	100.00	100.00	100.00
3	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	100.00
4	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	100.00
	Asystent+	0.10					
5	CHR/I/ADEL 280 SC	0.10	100.00	100.00	100.00	100.00	100.00
6	CHR/I/ADEL 280 SC	0.12	100.00	100.00	100.00	100.00	100.00
7	CHR/I/ADEL 280 SC	0.14	100.00	100.00	100.00	100.00	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	100.00	100.00	100.00	100.00
9	Decis Mega 50 EW	0.13	100.00	100.00	100.00	100.00	100.00
10	Fastac active 50 ME	0.30	100.00	100.00	100.00	100.00	100.00
LSD(P=,05)			-	-			

Table 18. The efficacy of CHR/I/ADEL 280 SC in control of RHOPPA *Rhopalosiphum padi* in winter wheat

Pest code	RHOPPA <i>Rhopalosiphum padi</i>					
Report code	A.T/2021/089/PO					
Application date	24.06.2021					
Crop stage	BBCH 65-71					
Part rated	all stages		all stages			
Assessment date	25.06.2021		02.07.2021			
Days after application DA-A	1 DA-A		8 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)	1.6		0.7	1.15	0.70	1.60
No.	Name	Rate (L, kg/ha)				
1	Untreated Check	-	0.00	0.00	0.00	0.00

2	CHR/I/ADEL 280 SC	0.06	73.80	100.00	86.90	73.80	100.00
3	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	100.00
4	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	100.00
	Asystent+	0.10					
5	CHR/I/ADEL 280 SC	0.10	100.00	100.00	100.00	100.00	100.00
6	CHR/I/ADEL 280 SC	0.12	100.00	100.00	100.00	100.00	100.00
7	CHR/I/ADEL 280 SC	0.14	100.00	100.00	100.00	100.00	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	100.00	100.00	100.00	100.00
9	Decis Mega 50 EW	0.13	100.00	100.00	100.00	100.00	100.00
10	Fastac active 50 ME	0.30	100.00	100.00	100.00	100.00	100.00
LSD(P=.05)			6.05				

Table 19. The efficacy of CHR/I/ADEL 280 SC in control of aphids in winter wheat (aphids summary table)

Pest code	MACSAV ( <i>Sitobion avenae</i> )																METODR ( <i>Metopolophium dirhodum</i> )		RHOPPA ( <i>Rhopalosiphum padi</i> )				
Report code	SRPL20-413-336FE		SRPL20-414-336FE		A.T/2021/088/P O		A.T/2021/089/P O		A.T/2021/090/P O		A.T/2021/091/P O		SRPL21-450-336FE		SRPL21-451-336FE		A.T/2021/089/P O		A.T/2021/089/P O				
Application date	30.06.2020		06.07.2020		23.06.2021		24.06.2021		28.06.2021		26.06.2021		30.06.2021		30.06.2021		24.06.2021		24.06.2021				
Crop stage	BBCH 71-75		BBCH 75-76		BBCH 73-75		BBCH 65-71		BBCH 69-73		BBCH 67-69		BBCH 73-75		BBCH 68-71		BBCH 65-71		BBCH 65-71				
Part rated	AD-ULT P	AD-ULT P	AD-ULT P	AD-ULT P	all stages	all stages	all stages	all stages	adult	adult	all stages	all stages	insect	insect	insect	insect	all stages	all stages	all stages	all stages			
Assessment date	3 DA-A	7 DA-A	2 DA-A	7 DA-A	24.06.2021	01.07.2021	25.06.2021	02.07.2021	30.06.2021	06.07.2021	29.06.2021	05.07.2021	03.07.2021	08.07.2021	01.07.2021	07.07.2021	25.06.2021	02.07.2021	25.06.2021	02.07.2021			
Days after application DA-A	03.07.2020	07.07.2020	06.07.2020	11.07.2020	1 DA-A	8 DA-A	1 DA-A	8 DA-A	2 DA-A	8 DA-A	3 DA-A	9 DA-A	3 DA-A	8 DA-A	1 DA-A	7 DA-A	1 DA-A	8 DA-A	1 DA-A	8 DA-A	Average	min.	max.

PESSEV (number of larva pest forms on stem)			4.85	1.41	4.51	2.11	6.2	6.5	1.1	1.2	5.1	4.2	4.3	4	2.32	1.28	6.98	5.1	2.2	3.0	1.6	0.7	3.43	0.70	6.98
No.	Name	Rate (L/kg/ha)																							
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	50.26	29.71	54.36	46.50	67.00	75.80	88.50	100.00	87.20	90.40	37.60	76.10	71.09	77.44	96.78	94.42	100.00	100.00	73.80	100.00	75.85	29.71	100.00
3	CHR/I/ADEL 280 SC	0.08	69.07	32.87	71.16	53.44	74.90	83.60	97.20	100.00	88.00	100.00	45.10	89.60	78.98	92.42	98.23	96.66	100.00	100.00	100.00	100.00	83.56	32.87	100.00
4	CHR/I/ADEL 280 SC	0.08	78.37	62.82	79.78	61.66	84.80	100.00	100.00	100.00	95.70	100.00	46.20	100.00	84.57	96.37	99.32	97.09	100.00	100.00	100.00	100.00	89.33	46.20	100.00
	Asy-stent+	0.10																							
5	CHR/I/ADEL 280 SC	0.10	82.71	54.77	84.65	57.17	88.20	96.70	100.00	100.00	95.60	100.00	73.00	97.80	90.04	100.00	98.88	98.54	100.00	100.00	100.00	100.00	90.90	54.77	100.00
6	CHR/I/ADEL 280 SC	0.12	85.35	63.01	90.13	71.04	90.70	100.00	100.00	100.00	97.50	100.00	82.30	100.00	90.53	100.00	99.44	97.17	100.00	100.00	100.00	100.00	93.36	63.01	100.00
7	CHR/I/ADEL 280 SC	0.14	90.70	68.76	91.36	80.12	95.00	100.00	100.00	100.00	98.20	100.00	98.30	100.00	93.04	100.00	100.00	99.32	100.00	100.00	100.00	100.00	95.74	68.76	100.00
8	CHR/I/ADEL 280 SC	0.16	94.65	75.83	94.19	86.83	95.60	100.00	100.00	100.00	96.80	100.00	100.00	100.00	94.14	100.00	100.00	100.00	100.00	100.00	100.00	100.00	96.90	75.83	100.00
9	Decis Mega 50 EW	0.13	94.36	66.99	94.74	83.58	89.90	94.10	100.00	100.00	97.20	100.00	92.00	100.00	95.11	100.00	100.00	99.42	100.00	100.00	100.00	100.00	95.37	66.99	100.00
10	Fastac active 50 ME	0.30	95.75	74.26	95.03	88.31	88.60	90.10	100.00	100.00	99.10	100.00	99.10	100.00	94.58	100.00	100.00	99.62	100.00	100.00	100.00	100.00	96.22	74.26	100.00
LSD(P=.05)			7.473	20.562	11.315	16.438	3.430	1.850	6.850	-	5.080	0.920	2.560	1.570	8.168	6.340	0.821	2.452	-	-	6.05	-			

**Table 20. The efficacy of CHR/I/ADEL 280 SC in control of THRISP Thrips sp. in winter wheat**

Pest code			THRISP ( <i>Thrips</i> sp.)								
Report code			SRPL20-413-336FE	SRPL20-414-336FE	SRPL20-416-336FE	SRPL20-417-336FE	SRPL21-450-336FE	SRPL21-451-336FE			
Application date			30.06.2020	04.07.2020	03.07.2020	30.06.2020	30.06.2021	30.06.2021			
Crop stage			BBCH 71-75	BBCH 75-76	BBCH 73	BBCH 75	BBCH 73-75	BBCH 68-71			
Part rated			ADULT P	ADULT P	ADULT P	ADULT P	insect	insect			
Assessment date			03.07.2020	06.07.2020	06.07.2020	06.07.2020	03.07.2021	01.07.2021			
Days after application DA-A			3 DA-A	2 DA-A	3 DA-A	3 DA-A	3 DA-A	1 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			5.20	4.26	5.11	5.13	2.48	4.73	4.49	2.48	5.20
No.	Name	Rate (L, kg/ha)									
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	54.99	58.51	49.96	31.31	56.30	90.40	56.91	31.31	90.40

Product code: CHR/I/ADEL 280 SC  
Product name: ADEL 280 SC/ PYRIFOS ADE 280 SC  
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3	CHR/I/ADEL 280 SC	0.08	70.88	63.82	67.79	59.53	71.60	93.79	71.24	59.53	93.79
4	CHR/I/ADEL 280 SC	0.08	79.41	73.10	68.18	63.91	83.39	97.70	77.62	63.91	97.70
	Asystent+	0.10									
5	CHR/I/ADEL 280 SC	0.10	84.82	74.75	77.11	70.78	87.38	96.17	81.84	70.78	96.17
6	CHR/I/ADEL 280 SC	0.12	92.11	86.29	86.64	76.23	90.86	96.41	88.09	76.23	96.41
7	CHR/I/ADEL 280 SC	0.14	94.64	90.19	92.59	83.23	92.03	99.21	91.98	83.23	99.21
8	CHR/I/ADEL 280 SC	0.16	95.54	93.61	93.93	87.47	91.82	99.78	93.69	87.47	99.78
9	Decis Mega 50 EW	0.13	94.30	90.22	-	-	93.91	99.78	94.55	90.22	99.78
10	Fastac active 50 ME	0.30	95.33	92.76	94.00	91.34	96.14	99.52	94.85	91.34	99.52
LSD(P=.05)			11.860	13.981	12.098	25.33	8.728	2.351			

**Table 21. The efficacy of CHR/I/ADEL 280 SC in control of MACSAV *Sitobion avenae* in winter triticale**

Pest code			MACSAW ( <i>Sitobion avenae</i> )																
Report code			SRPL20-415-336FE	AI/20/PszO/24/Gr/02	A.T/2021/092/PŽO		A.T/2021/094/PŽO		A.T/2021/095/PŽO		AI/21/PszO/20/Pr/1		AI/21/PszO/20/Ra/2						
Appliaction date			06.07.2020		26.06.2020		18.06.2021		24.06.2021		26.06.2021		03.06.2021		21.06.2021				
Crop stage			BBCH 73-77		BBCH 73-75		BBCH 73-77		BBCH 69-73		BBCH 65-69		BBCH 49		BBCH 63				
Part rated			INSECT P	INSECT P	PLANT P	PLANT P	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages			
Assessment date			09.07.2020	13.07.2020	06.07.2020	11.07.2020	21.06.2021	25.06.2021	26.06.2021	02.07.2021	29.06.2021	05.07.2021	05.06.2021	10.06.2021	24.06.2021	28.06.2021			
Days after application DA-A			3 DA-A	7 DA-A	3 DA-A	7 DA-A	3 DA-A	7 DA-A	2 DA-A	8 DA-A	3 DA-A	9 DA-A	2 DA-A	7 DA-A	3 DA-A	7 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			4.8	2.2	0.8	0.4	6.3	4.1	5.1	4.8	4.0	3.4	0.82	0.79	1.24	1.43	2.87	0.40	6.30
No.	Name	Rate (L, kg/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	0.0	0.0	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	57.0	31.0	69.0	70.3	61.5	75.7	85.1	100.0	44.0	67.9	47.6	58.2	58.9	73.4	64.26	31.00	100.00
3	CHR/I/ADEL 280 SC	0.08	74.0	50.0	78.6	75.7	72.2	85.5	87.9	100.0	79.2	80.2	68.5	78.5	75.0	85.3	77.90	50.00	100.00
4	CHR/I/ADEL 280 SC	0.08	80.0	43.0	86.9	89.2	78.4	90.2	95.0	100.0	86.2	90.5	75.6	83.5	66.1	81.8	81.89	43.00	100.00
	Asyistent+	0.10																	
5	CHR/I/ADEL 280 SC	0.10	82.0	42.0	83.3	81.1	80.9	93.3	95.8	100.0	90.9	93.0	79.3	83.5	82.3	93.0	84.31	42.00	100.00
6	CHR/I/ADEL 280 SC	0.12	85.0	66.0	83.3	86.5	85.4	98.1	98.3	100.0	87.7	95.5	74.4	82.3	84.7	95.8	87.36	66.00	100.00
7	CHR/I/ADEL 280 SC	0.14	88.0	69.0	89.3	91.9	88.3	100.0	99.0	100.0	97.6	100.0	74.4	75.9	82.3	94.4	89.29	69.00	100.00
8	CHR/I/ADEL 280 SC	0.16	87.0	71.0	91.7	89.2	90.7	100.0	97.0	100.0	100.0	100.0	82.9	91.1	83.1	93.7	91.24	71.00	100.00
9	Decis Mega 50 EW	0.125					75.7	84.5	98.2	100.0	71.6	78.5	92.7	94.9	91.9	93.7	88.17	71.60	100.00
LSD(P=.05)			8.200	22.500	-	-	2.48	2.24	4.68		3.87	2.74							

**Table 22. The efficacy of CHR/I/ADEL 280 SC in control of RHOPPA *Rhopalosiphum padi* in winter triticale**

Pest code			RHOPPA <i>Rhopalosiphum padi</i>				
Report code			A.T/2021/093/PŽO				
Appliaction date			23.06.2021				
Crop stage			BBCH 69-73				
Part rated			all stages	all stages			
Assessment date			25.06.2021	02.07.2021			
Days after application DA-A			2 DA-A	9 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			5.1	4.6	4.85	4.60	5.10
No.	Name	Rate (L, kg/ha)					
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	100.00	100.00	100.00	100.00	100.00
3	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	100.00
4	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	100.00
	Asystent+	0.10					
5	CHR/I/ADEL 280 SC	0.10	100.00	100.00	100.00	100.00	100.00
6	CHR/I/ADEL 280 SC	0.12	100.00	100.00	100.00	100.00	100.00
7	CHR/I/ADEL 280 SC	0.14	100.00	100.00	100.00	100.00	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	100.00	100.00	100.00	100.00
9	Decis Mega 50 EW	0.125	100.00	100.00	100.00	100.00	100.00
LSD(P=.05)			-	-			



**Table 23. The efficacy of CHR/I/ADEL 280 SC in control of aphids in winter triticale (aphids summary table)**

Pest code			MACSAW ( <i>Sitobion avenae</i> )														RHOPPA <i>Rhopalosiphum padi</i>	
Report code			SRPL20-415-336FE		AI/20/PszO/24/Gr/02		A.T/2021/092/PŽO		A.T/2021/094/PŽO		A.T/2021/095/PŽO		AI/21/PszO/20/Pr/1		AI/21/PszO/20/Ra/2		A.T/2021/093/PŽO	
Appliation date			06.07.2020		26.06.2020		18.06.2021		24.06.2021		26.06.2021		03.06.2021		21.06.2021		23.06.2021	
Crop stage			BBCH 73-77		BBCH 73-75		BBCH 73-77		BBCH 69-73		BBCH 65-69		BBCH 49		BBCH 63		BBCH 69-73	
Part rated			IN-SECT P	IN-SECT P	PLANT P	PLANT P	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages	all stages
Assessment date			09.07.2020	13.07.2020	06.07.2020	11.07.2020	21.06.2021	25.06.2021	26.06.2021	02.07.2021	29.06.2021	05.07.2021	05.06.2021	10.06.2021	24.06.2021	28.06.2021	25.06.2021	02.07.2021
Days after application DA-A			3 DA-A	7 DA-A	3 DA-A	7 DA-A	3 DA-A	7 DA-A	2 DA-A	8 DA-A	3 DA-A	9 DA-A	2 DA-A	7 DA-A	3 DA-A	7 DA-A	2 DA-A	9 DA-A
PESSEV (number of larva pest forms on stem)			4.8	2.2	0.8	0.4	6.3	4.1	5.1	4.8	4.0	3.4	0.82	0.79	1.24	1.43	5.1	4.6
N o.			Name		Rate (L/kg/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
2			CHR/I/AD EL 280 SC		0.06		57.0	31.0	69.0	70.3	61.5	75.7	85.1	100.0	44.0	67.9	47.6	58.2
3			CHR/I/AD EL 280 SC		0.08		74.0	50.0	78.6	75.7	72.2	85.5	87.9	100.0	79.2	80.2	68.5	78.5
4			CHR/I/AD EL 280 SC		0.08		80.0	43.0	86.9	89.2	78.4	90.2	95.0	100.0	86.2	90.5	75.6	83.5
			Asysent+		0.10													
5			CHR/I/AD EL 280 SC		0.10		82.0	42.0	83.3	81.1	80.9	93.3	95.8	100.0	90.9	93.0	79.3	83.5
6			CHR/I/AD EL 280 SC		0.12		85.0	66.0	83.3	86.5	85.4	98.1	98.3	100.0	87.7	95.5	74.4	82.3
7			CHR/I/AD EL 280 SC		0.14		88.0	69.0	89.3	91.9	88.3	100.0	99.0	100.0	97.6	100.0	74.4	75.9
8			CHR/I/AD EL 280 SC		0.16		87.0	71.0	91.7	89.2	90.7	100.0	97.0	100.0	100.0	100.0	82.9	91.1
9			Decis Mega 50 EW		0.125		-	-	-	-	75.7	84.5	98.2	100.0	71.6	78.5	92.7	94.9
LSD(P=.05)			8.200	22.500	-	-	2.48	2.24	4.68	-	3.87	2.74	-	-	-	-	-	-

**Table 24. The efficacy of CHR/I/ADEL 280 SC in control of THRISP *Thrips sp.* in winter triticale**

Pest code			THRISP ( <i>Thrips</i> sp.)																		
Report code			SRPL20-415-336FE		SRPL20-418-336FE		SRPL21-452-336FE		SRPL21-453-336FE		SRPL21-454-336FE		SRPL21-455-336FE		SRPL21-456-336FE		SRPL21-457-336FE				
Appliaction date			06.07.2020		06.07.2020		21.06.2021		09.06.2021		30.06.2021		25.06.2021		15.06.2021		09.06.2021				
Crop stage			BBCH 73-77		BBCH 75		BBCH 65-69		BBCH 51-55		BBCH 71-73		BBCH 73-75		BBCH 71-73		BBCH 61-65				
Part rated			ADULT P	ADULT P	ADULT P	ADULT P	IN-SECT P	IN-SECT P	ADULT	ADULT	IN-SECT P	IN-SECT P	IN-SECT P	IN-SECT P	IN-SECT P	IN-SECT P	IN-SECT P	IN-SECT P			
Assessment date			09.07.2 020	13.07.2 020	09.07.2 020	13.07.2 020	24.06.2 021	28.06.2 021	11.06.2 021	16.06.2 021	03.07.2 021	07.07.2 021	28.06.2 021	03.07.2 021	17.06.2 021	22.06.2 021	11.06.2 021	16.06.2 021			
Days after application DA-A			3 DA-A	7 DA-A	3 DA-A	7 DA-A	3 DA-A	7 DA-A	2 DA-A	7 DA-A	3 DA-A	7 DA-A	3 DA-A	8 DA-A	2 DA-A	7 DA-A	2 DA-A	7 DA-A	Ave- rage	min.	max.
PESSEV (number of larva pest forms on stem)			5.0	2.4	5.4	3.0	5.4	2.3	5.8	4.9	4.8	3.4	11.7	8.7	14.5	12.7	5.4	5.0	6.27	2.30	14.48
N o.	Name	Rate (L, kg/ha )																			
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/A DEL 280 SC	0.06	75.00	69.00	63.68	77.69	79.83	62.07	61.76	68.56	72.04	86.03	47.36	48.39	47.01	49.36	94.81	87.37	68.12	47.01	94.81
3	CHR/I/A DEL 280 SC	0.08	78.00	77.00	74.60	87.81	87.15	88.03	65.44	72.14	76.00	93.92	51.45	50.66	54.94	56.46	96.17	95.01	75.30	50.66	96.17
4	CHR/I/A DEL 280 SC	0.08	86.00	77.00	77.94	91.12	92.26	91.98	78.08	78.50	81.92	96.99	54.52	55.84	57.76	61.07	97.51	96.32	79.68	54.52	97.51
	Asyentn+	0.10																			
5	CHR/I/A DEL 280 SC	0.10	84.00	82.00	86.60	95.90	94.98	88.84	80.00	82.02	83.54	97.73	61.14	64.74	69.56	73.27	97.71	96.07	83.63	61.14	97.73
6	CHR/I/A DEL 280 SC	0.12	87.00	80.00	92.37	96.67	94.24	90.87	83.15	87.92	86.17	98.15	69.89	71.50	74.74	77.95	98.22	94.70	86.47	69.89	98.22
7	CHR/I/A DEL 280 SC	0.14	91.00	88.00	93.08	100.00	96.47	93.08	89.63	91.76	91.18	100.00	77.50	82.37	85.94	88.40	99.08	98.62	91.63	77.50	100.00
8	CHR/I/A DEL 280 SC	0.16	91.00	81.00	94.25	100.00	97.16	94.94	95.86	96.33	93.44	100.00	84.31	90.40	91.92	95.58	99.63	99.22	94.07	81.00	100.00
9	Fastac Active 50	0.30	-	-	-	-	98.18	98.13	93.98	93.68	94.83	100.00	89.11	94.01	93.99	95.44	99.84	99.61	95.90	89.11	100.00

Product code: CHR/I/ADEL 280 SC  
Product name: ADEL 280 SC/ PYRIFOS ADE 280 SC  
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	ME																				
LSD(P=.05)		6.100	8.700	7.459	5.882	4.884	15.133	-	-	5.045	2.008	6.224	8.068	5.607	5.993	1.509	5.481				

**Table 25. The efficacy of CHR/I/ADEL 280 SC in control of APHISP Aphis sp. in sugar beet**

Pest code			APHISP (Aphis sp. )																		
Report code			SRPL20-421-336FE		AI/20/Bc/24/Lu/01		A.T/2021/081/BC		A.T/2021/082/BC		A.T/2021/083/BC		A.T/2021/084/BC		A.T/2021/085/BC		AI/21/BC/18/ZI				
Application date			02.06.2020		18.05.2020		30.05.2021		14.06.2021		26.05.2021		10.06.2021		15.06.2021		25.05.2021				
Crop stage in application			BBCH 13-15		BBCH 14-15		BBCH 12-14		BBCH 14-19		BBCH 12-14		BBCH 17-19		BBCH 18-19		BBCH 13				
Part rated			ADULT P	ADULT P	PLANT P	PLANT P	MIXED P	MIXED P	ADULT	ADULT	ADULT	ADULT	ADULT	ADULT	ADULT	ADULT	INSECT	INSECT			
Assessment date			05.06.2020	09.06.2020	21.05.2020	25.05.2020	31.05.2021	07.06.2021	15.06.2021	21.06.2021	28.05.2021	04.06.2021	12.06.2021	17.06.2021	18.06.2021	23.06.2021	27.05.2021	01.06.2021			
Days after application DA-A			3 DA-A	7 DA-A	3 DA-A	7 DA-A	1 DA-A	8 DA-A	1 DA-A	7 DA-A	2 DA-A	9 DA-A	2 DA-A	7 DA-A	3 DA-A	8 DA-A	2 DA-A	7 DA-A	Average	min	max.
PESSEV (number of larva pest forms on stem)			15.8	39.6	18.3	10.3	2.7	4.3	3.5	2.6	6.3	8.1	1	0.8	147.9	99	14	24	24.89	0.80	147.90
N o.	Name	Rate (L, kg/ha)																			
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/AD EL 280 SC	0.06	72.76	88.28	65.80	78.00	53.10	67.00	18.30	44.20	45.90	71.10	55.50	75.80	68.80	74.90	60.70	57.30	62.34	18.30	88.28
3	CHR/I/AD EL 280 SC	0.08	84.16	90.05	76.70	85.40	67.80	73.10	24.10	50.60	69.10	78.90	66.60	77.00	75.90	78.40	78.60	83.30	72.48	24.10	90.05
4	CHR/I/AD EL 280 SC	0.08	84.54	89.84	87.70	92.70	76.20	77.10	29.20	55.40	71.10	89.70	61.60	83.30	75.20	87.60	89.30	87.50	77.37	29.20	92.70
	Asyistent+	0.10																			
5	CHR/I/AD EL 280 SC	0.10	86.70	90.55	89.00	87.80	67.50	75.60	29.50	55.30	71.70	95.80	66.20	88.50	74.60	87.40	89.30	90.60	77.88	29.50	95.80
6	CHR/I/AD EL 280 SC	0.12	87.62	90.25	86.30	90.20	70.30	84.80	29.00	59.70	76.40	95.60	56.50	91.80	86.00	95.30	85.70	84.40	79.37	29.00	95.60
7	CHR/I/AD EL 280 SC	0.14	88.81	91.40	89.00	97.60	76.90	88.60	25.30	58.60	79.20	99.20	62.60	92.40	94.40	98.90	89.30	82.30	82.16	25.30	99.20
8	CHR/I/AD EL 280 SC	0.16	85.95	90.73	91.80	95.10	80.60	93.70	36.20	66.00	87.50	94.40	70.40	94.40	94.60	99.00	91.10	90.60	85.13	36.20	99.00
9	Decis Mega 50 EW	0.20	86.22	90.65	86.30	87.80	76.70	70.00	17.50	19.60	92.30	100.00	30.70	31.10	61.30	81.80	94.60	92.70	69.95	17.50	100.00
LSD(P=.05)			3.976	1.950	-	-	14.74	14.36	13.47	27.42	16.06	7.62	12.9	8.51	13.63	2.11					

**Table 26. The efficacy of CHR/I/ADEL 280 SC in control of PEGOHY *Pegomya hyoscyami* larva in sugar beet**

Pest code			PEGOHY ( <i>Pegomya hyoscyami</i> )														
Report code			SRPL20-419-336FE		SRPL20-420-336FE		AI/21/BC/18/Br/1		AI/21/BC/18/La/2		AI/21/BC/18/Mr/3		AI/21/BC/18/Ko/4				
Application date			22.05.2020		29.05.2020		20.05.2021		24.05.2021		31.05.2021		31.05.2021				
Crop stage in application			BBCH 12-13		BBCH 13-14		BBCH 13		BBCH 12-13		BBCH 13-14		BBCH 13-14				
Part rated			LARVA P	LARVA P	LARVA P	LARVA P	LARVA	LARVA	LARVA	LARVA	LARVA	LARVA	LARVA				LARVA
Assessment date			29.05.2020	05.06.2020	05.06.2020	12.06.2020	04.06.2021	11.06.2021	07.06.2021	14.06.2021	10.06.2021	17.06.2021	11.06.2021				18.05.2021
Days after application DA-A			7 DA-A	14 DA-A	7 DA-A	14 DA-A	15 DA-A	22 DA-A	14 DA-A	21 DA-A	10 DA-A	17 DA-A	11 DA-A	18 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			2.3	1.0	2.4	0.8	10.80	15.50	11.80	15.80	0.98	1.04	0.75	1.00	5.35	0.75	15.80
No.	Name	Rate (L, kg/ha)															
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	85.04	88.20	85.36	87.45	62.80	54.80	59.60	56.50	66.30	53.80	64.00	56.00	68.32	53.80	88.20
3	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	76.70	79.00	74.50	77.40	75.50	69.20	77.30	77.00	83.88	69.20	100.00
4	CHR/I/ADEL 280 SC	0.08	100.00	100.00	100.00	100.00	81.40	85.50	76.60	74.20	75.50	71.20	81.30	82.00	85.64	71.20	100.00
	Asystent+	0.10															
5	CHR/I/ADEL 280 SC	0.10	100.00	100.00	100.00	100.00	81.40	87.10	76.60	79.00	78.60	77.90	85.30	81.00	87.24	76.60	100.00
6	CHR/I/ADEL 280 SC	0.12	100.00	100.00	100.00	100.00	81.40	82.30	76.60	80.60	79.60	82.70	82.70	79.00	87.08	76.60	100.00
7	CHR/I/ADEL 280 SC	0.14	100.00	100.00	100.00	100.00	86.00	88.70	83.00	83.90	83.70	81.70	85.30	83.00	89.61	81.70	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	100.00	100.00	100.00	83.70	90.30	78.70	85.50	86.70	84.60	86.70	94.00	90.85	78.70	100.00
9	Decis Mega 50 EW	0.20	100.00	100.00	100.00	100.00	86.00	95.20	87.20	90.30	84.70	86.50	90.70	92.00	92.72	84.70	100.00
LSD(P=0.05)			1.107	2.575	2.778	1.710											

**Table 27. The efficacy of CHR/I/ADEL 280 SC in control egg of PEGOHY *Pegomya hyoscyami* in sugar beet**

Pest code			PEGOHY ( <i>Pegomya hyoscyami</i> )				
Report code			A.T/2021/086/BC	A.T/2021/087/BC			
Application date			04.06.2021	31.05.2021			
Crop stage in application			BBCH 12-16	BBCH 12-16			
Part rated			EGG	EGG			
Assessment date			11.06.2021	07.06.2021			
Days after application DA-A			7 DA-A	7 DA-A	Average	min.	max.
PESSEV (number of larva pest forms on stem)			2.30	3.50	2.90	2.30	3.50
No.	Name	Rate (L, kg/ha)					
1	Untreated Check		0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	33.10	28.50	30.80	28.50	33.10
3	CHR/I/ADEL 280 SC	0.08	43.20	50.00	46.60	43.20	50.00
4	CHR/I/ADEL 280 SC	0.08	34.60	52.70	43.65	34.60	52.70
	Asystent+	0.10					
5	CHR/I/ADEL 280 SC	0.10	44.80	56.60	50.70	44.80	56.60
6	CHR/I/ADEL 280 SC	0.12	49.50	59.10	54.30	49.50	59.10
7	CHR/I/ADEL 280 SC	0.14	61.80	61.20	61.50	61.20	61.80
8	CHR/I/ADEL 280 SC	0.16	52.70	62.80	57.75	52.70	62.80
9	Decis Mega 50 EW	0.20	4.70	61.30	33.00	4.70	61.30
LSD(P=.05)			7.93	16.01			

Table 28. The efficacy of CHR/I/ADEL 280 SC in reducing mine caused by PEGOHY *Pegomya hyoscyami* in sugar beet

Pest code	PEGOHY ( <i>Pegomya hyoscyami</i> )
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Report code			A.T/2021/086/BC		A.T/2021/087/BC				
Application date			04.06.2021		31.05.2021				
Crop stage in application			BBCH 12-16		BBCH 12-16				
Part rated			mine control	mine control	mine control	mine control			
Assessment date			11.06.2021	18.06.2021	07.06.2021	15.06.2021			
Days after application DA-A			7 DA-A	14 DA-A	7 DA-A	15 DA-A	Average	min.	max.
No.	Name	Rate (L, kg/ha)							
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	62.60	56.80	48.70	64.70	58.20	48.70	64.70
3	CHR/I/ADEL 280 SC	0.08	71.60	67.20	75.40	86.80	75.25	67.20	86.80
4	CHR/I/ADEL 280 SC	0.08	77.60	76.30	78.80	85.90	79.65	76.30	85.90
	Asystent+	0.10							
5	CHR/I/ADEL 280 SC	0.10	86.30	84.50	82.80	94.90	87.13	82.80	94.90
6	CHR/I/ADEL 280 SC	0.12	92.20	95.80	81.90	89.40	89.83	81.90	95.80
7	CHR/I/ADEL 280 SC	0.14	100.00	100.00	84.50	93.90	94.60	84.50	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	97.70	86.00	97.00	95.18	86.00	100.00
9	Decis Mega 50 EW	0.20	13.10	2.30	43.40	64.80	30.90	2.30	64.80
LSD(P=.05)			12.87	12.22	10.82	6.82			

Table 29. The efficacy of CHR/I/ADEL 280 SC in reducing leaf damage caused by PEGOHY *Pegomya hyoscyami* in sugar beet

Pest code	PEGOHY ( <i>Pegomya hyoscyami</i> )	
Report code	A.T/2021/086/BC	A.T/2021/087/BC
Application date	04.06.2021	31.05.2021

Crop stage in application			BBCH 12-16		BBCH 12-16				
Part rated			leaf damage control	leaf damage control	leaf damage control	leaf damage control			
Assessment date			11.06.2021	18.06.2021	07.06.2021	15.06.2021			
Days after application DA-A			7 DA-A	14 DA-A	7 DA-A	15 DA-A	Average	min.	max.
No.	Name	Rate (L, kg/ha)							
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CHR/I/ADEL 280 SC	0.06	63.80	54.20	47.80	69.80	58.90	47.80	69.80
3	CHR/I/ADEL 280 SC	0.08	65.70	62.70	78.20	80.10	71.68	62.70	80.10
4	CHR/I/ADEL 280 SC	0.08	90.80	76.40	87.10	81.60	83.98	76.40	90.80
	Asystent+	0.10							
5	CHR/I/ADEL 280 SC	0.10	86.20	84.40	89.10	81.70	85.35	81.70	89.10
6	CHR/I/ADEL 280 SC	0.12	91.50	94.60	89.70	81.70	89.38	81.70	94.60
7	CHR/I/ADEL 280 SC	0.14	100.00	100.00	91.80	92.50	96.08	91.80	100.00
8	CHR/I/ADEL 280 SC	0.16	100.00	98.40	90.40	95.50	96.08	90.40	100.00
9	Decis Mega 50 EW	0.20	12.90	12.00	57.50	40.70	30.78	12.00	57.50
LSD(P=.05)			15.09	11.32	11.57	4.68			



## Appendix 6 Summary of phytotoxicity trials data in summary form

Table 1 – data from phytotoxicity trials – winter oilseed rape in autumn application, Poland 2019 and 2020 (selectivity trials)

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %			
4I/2020	Timing of assessment date	DA-A	3 DA-A 07.10.2019	7 DA-A 11.10.2019	13 DA-A 17.10.2019	21 DA-A 25.10.2019
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	0.00
	Los Ovados 200 SE	0.25	0.00	0.00	0.00	0.00
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.00	0.00	0.00	0.00
	LSD (P=0.05)		0.000	0.000	0.000	0.000
A.T/2019/085/RZO	Timing of assessment date	DA-A	1 DA-A 27.09.2019	4 DA-A 30.09.2019	9 DA-A 05.10.2019	- -
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	Asystent+	0.1				-

	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	-
	Los Ovados 200 SE	0.25	0.00	0.00	0.00	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.00	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	0.000	-
<b>A.T/2019/086/RZO</b>	Timing of assessment date	DA-A	3 DA-A 10.11.2019	8 DA-A 15.11.2019	14 DA-A 21.11.2019	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	-
	Los Ovados 200 SE	0.25	0.00	0.00	0.00	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.00	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	0.000	-
<b>AI/19/RO/27/ZI/ADEL</b>	Timing of assessment date	DA-A	3 DA-A 18.10.2019	6 DA-A 21.10.2019	9 DA-A 24.10.2019	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	-

	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.00	0.00	0.00	-
	Decis Mega 50 EW	0.15	0.00	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/116/RZO	Timing of assessment	DA-A	3 DA-A	6 DA-A	9 DA-A	-
	date		12.10.2020	15.10.2020	18.10.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/117/RZO	Timing of assessment	DA-A	1 DA-A	4 DA-A	8 DA-A	-

	date		23.10.2020	26.10.2020	30.10.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/118/RZO	Timing of assessment	DA-A	1 DA-A	4 DA-A	7 DA-A	-
	date		23.10.2020	26.10.2020	29.10.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.000	0.000	0.000	-

	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/119/RZO	Timing of assessment	DA-A	3 DA-A	7 DA-A	13 DA-A	-
	date		26.10.2020	30.10.2020	05.11.2020	-
	Untreated Check					-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/120/RZO	Timing of assessment	DA-A	1 DA-A	7 DA-A	13 DA-A	-
	date		29.10.2020	04.11.2020	10.11.2020	-
	Untreated Check					-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/121/RZO	Timing of assessment	DA-A	1 DA-A	7 DA-A	14 DA-A	-
	date		23.10.2020	29.10.2020	05.11.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
AI/20/RO/36/Pr/1	Timing of assessment	DA-A	2 DA-A	7 DA-A	13 DA-A	-
	date		19.09.2020	24.09.2020	30.09.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				
	Asystent+	0.1	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
AI/20/RO/36/ZI/2	Timing of assessment	DA-A	1 DA-A	7 DA-A	14 DA-A	-
	date		22.09.2020	28.09.2020	05.10.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
AI/20/RO/36/Br/3	Timing of assessment	DA-A	1 DA-A	7 DA-A	14 DA-A	-
	date		19.09.2020	25.09.2020	02.10.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
4I/2021	Timing of assessment	DA-A	2 DA-A	9 DA-A		-
	date		26.09.2020	03.10.2020		-
	Untreated Check					-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000		-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000		-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000		-
	Asystent+	0.1	0.000	0.000		-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000		-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000		-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000		-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000		-
	Los Ovados 200 SE	0.25	0.000	0.000		-
	Asystent+	0.1	0.000	0.000		-
	Decis Mega 50 EW	0.15	0.000	0.000		-
	LSD (P=0.05)		0.000	0.000		-
5I/2021	Timing of assessment	DA-A	2 DA-A	9 DA-A		-



	date		26.09.2020	03.10.2020		-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.08			-	-
	Asystent+	0.1	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-	-
	Los Ovados 200 SE	0.25			-	-
	Asystent+	0.1	0.000	0.000	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	-	-
	LSD (P=0.05)		0.000	0.000	-	-
	Timing of assessment	DA-A	1 DA-A	7 DA-A	13 DA-A	-
	date		10.10.2020	16.10.2020	22.10.2020	-
6I/2021	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				-
	Asystent+	0.1	0.000	0.000	0.000	-

	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-

Table 2 – data from phytotoxicity trials – winter oilseed rape in spring application, Poland 2020 and 2021 (selectivity trials)

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %			
A.T/2020/027/RZO	Timing of assessment date	DA-A	14 DA-A 22.04.2020	28 DA-A 06.05.2020	- -	- -
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-	-
	Asystent+	0.1	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	-	-
	Los Ovados 200 SE	0.25	0.00	0.00	-	-
	Asystent+	0.1	0.00	0.00	-	-
	Decis Mega 50 EW	0.15	0.00	0.00	-	-
	Inazuma 130 WG	0.2	0.00	0.00	-	-
	LSD (P=0.05)		0.000	0.000	-	-
A.T/2020/029/RZO	Timing of assessment date	DA-A	1 DA-A 11.04.2020	6 DA-A 16.04.2020	9 DA-A 19.04.2020	- -
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-

	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	-
	Los Ovados 200 SE	0.25	0.00	0.00	0.00	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.1	0.00	0.00	0.00	-
	Inazuma 130 WG	0.2	0.00	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/030/RZO	Timing of assessment date	DA-A	1 DA-A 23.04.2020	5 DA-A 27.04.2020	9 DA-A 01.05.2020	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	-
	Los Ovados 200 SE	0.25	0.00	0.00	0.00	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.1	0.00	0.00	0.00	-
	Inazuma 130 WG	0.2	0.00	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	0.000	-

	Timing of assessment date	DA-A	2 DA-A 26.04.2020	6 DA-A 30.04.2020	10 DA-A 08.05.2020	20 DA-A 18.05.2020
<b>A.T/2020/031/RZO</b>	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	0.00
	Los Ovados 200 SE	0.25	0.00	0.00	0.00	0.00
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.00	0.00	0.00	0.00
	Inazuma 130 WG	0.2	0.00	0.00	0.00	0.00
	LSD (P=0.05)		0.000	0.000	0.000	0.00
<b>A.T/2020/032/RZO</b>	Timing of assessment date	DA-A	2 DA-A 09.05.2020	6 DA-A 13.05.2020	22 DA-A 29.05.2020	- -
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	-

	Los Ovados 200 SE	0.25	0.00	0.00	0.00	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.00	0.00	0.00	-
	Inazuma 130 WG	0.2	0.00	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2020/085/RZO	Timing of assessment date	DA-A	6 DA-A 28.05.2020	14 DA-A 05.06.2020	- -	- -
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.08				
	Asystent+	0.1	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	-	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.00	0.00	-	-
	Decis Mega 50 EW	0.15	0.00	0.00	-	-
	Inazuma 130 WG	0.2	0.00	0.00	-	-
	LSD (P=0.05)		0.000	0.000	-	-
AI/20/RO/7/NW/ADEL	Timing of assessment date	DA-A	7 DA-A 30.03.2020	14 DA-A 06.04.2020	19 DA-A 11.05.2020	- -
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	-

	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	-
	Los Ovados 200 SE	0.25				
	Asystent+	0.1	0.00	0.00	0.00	-
	Decis Mega 50 EW	0.15	0.00	0.00	0.00	-
	Inazuma 130 WG	0.2	0.00	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/001/RZO	Timing of assessment	DA-A	14 DA-A	26 DA-A	47 DA-A	-
	date		09.04.2021	21.04.2021	12.05.2021	-
	Untreated Check	-		-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08				-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				-
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/002/RZO	Timing of assessment	DA-A	10 DA-A	24 DA-A	52 DA-A	-
	date		09.04.2021	23.04.2021	21.05.2021	-

	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/003/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	64 DA-A	-
	date		13.04.2021	27.04.2021	02.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-

	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/004/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	49 DA-A	-
	date	-	13.04.2021	27.04.2021	18.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/005/RZO	Timing of assessment	DA-A	12 DA-A	28 DA-A	45 DA-A	-
	date	-	01.05.2021	17.05.2021	03.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-



	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/006/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	31 DA-A	-
	date		01.05.2021	15.05.2021	18.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/007/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	56 DA-A	-
	date		14.04.2021	28.04.2021	26.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/008/RZO	Timing of assessment	DA-A	14 DA-A	28 DA-A	39 DA-A	-
	date		26.04.2021	10.05.2021	21.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/009/RZO	Timing of assessment	DA-A	1 DA-A	4 DA-A	9 DA-A	-
	date		11.05.2021	14.05.2021	19.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/010/RZO	Timing of assessment	DA-A	1 DA-A	4 DA-A	7 DA-A	-
	date		01.05.2021	04.05.2021	07.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/064/RZO	Timing of assessment	DA-A	1 DA-A	5 DA-A	27 DA-A	-
	date		20.05.2021	24.05.2021	15.06.2021	-

	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/065/RZO	Timing of assessment	DA-A	1 DA-A	5 DA-A	27 DA-A	-
	date		13.05.2021	17.05.2021	08.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-

	LSD (P=0.05)		0.000	0.000	0.000	-
A.T/2021/066/RZO	Timing of assessment	DA-A	6 DA-A	14 DA-A	-	-
	date		30.05.2021	07.06.2021	-	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-	-
	Asystent+	0.1	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-	-
	Los Ovados 200 SE	0.25	0.000	0.000	-	-
	Asystent+	0.1	0.000	0.000	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	-	-
	LSD (P=0.05)		0.000	0.000	-	-
CH-WR-I-ADEL-2021-01	Timing of assessment	DA-A	2 DA-A	5 DA-A	8 DA-A	-
	date		26.04.2021	29.04.2021	02.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-

	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
CH-WR-I-ADEL-2021-02	Timing of assessment	DA-A	2 DA-A	5 DA-A	8 DA-A	-
	date	-	26.04.2021	29.04.2021	02.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
CH-WR-I-ADEL-2021-03	Timing of assessment	DA-A	7 DA-A	14 DA-A	26 DA-A	-
	date	-	20.05.2021	27.05.2021	08.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
CH-WR-I-ADEL-2021-04	Timing of assessment	DA-A	8 DA-A	15 DA-A	27 DA-A	-
	date		20.05.2021	27.05.2021	07.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
SRPL21-401-336FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A	-
	date		18.05.2021	25.05.2021	01.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
SRPL21-402-336FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A	-
	date		19.05.2021	26.05.2021	02.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
	Timing of assessment	DA-A	7 DA-A	14 DA-A	34 DA-A	-
	date		20.04.2021	27.04.2021	17.05.2021	-
AI/21/RO/4/Pr/01						



	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
AI/21/RO/4/ZI/02	Timing of assessment	DA-A	7 DA-A	14 DA-A	-	-
	date	-	07.04.2021	14.05.2021	-	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-	-
	Asystent+	0.1	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-	-
	Los Ovados 200 SE	0.25	0.000	0.000	-	-
	Asystent+	0.1	0.000	0.000	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	-	-

	LSD (P=0.05)		0.000	0.000	-	-
AI/21/RO/4/Br/03	Timing of assessment	DA-A	7 DA-A	14 DA-A	43 DA-A	-
	date	-	08.04.2021	15.04.2021	14.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
AI/21/RO/14/Ma/ADEL	Timing of assessment	DA-A	7 DA-A	14 DA-A	32 DA-A	-
	date	-	27.05.2021	03.06.2021	21.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-

	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
9I/2021	Timing of assessment	DA-A	3 DA-A	7 DA-A	14 DA-A	-
	date		23.04.2021	27.04.2021	04.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
10I/2021	Timing of assessment	DA-A	3 DA-A	7 DA-A	14 DA-A	-
	date		23.04.2021	27.04.2021	04.05.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
11I/2021	Timing of assessment	DA-A	1 DA-A	6 DA-A	28 DA-A	-
	date		15.05.2021	20.05.2021	11.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25	0.000	0.000	0.000	-
	Asystent+	0.1				
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-
12I/2021	Timing of assessment	DA-A	1 DA-A	6 DA-A	28 DA-A	-
	date		15.05.2021	20.05.2021	11.06.2021	-
	Untreated Check	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-

	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-
	Asystent+	0.1				-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-
	Los Ovados 200 SE	0.25				-
	Asystent+	0.1	0.000	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	0.000	-

Table 3 – data from phytotoxicity trials – winter wheat, Poland 2020 and 2021 (selectivity trials)

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %		
SRPL20-413-336FE	Timing of assessment date	DA-A	3 DA-A 03.07.2020	7 DA-A 07.07.2020	14 DA-A 14.07.2020
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08			
	Asystent+	0.10	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00
	Decis Mega 50 EW	0.13	0.00	0.00	0.00
	Fastac Active 50 ME	0.30	0.00	0.00	0.00
	LSD (P=0.05)		0.000	0.000	0.000

	Timing of assessment date	DA-A	7 DA-A 11.07.2020	14 DA-A 18.07.2020	21 DA-A 25.07.2020
<b>SRPL20-414-336FE</b>	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00
	Asystent+	0.10	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00
	Decis Mega 50 EW	0.13	0.00	0.00	0.00
	Fastac Active 50 ME	0.30	0.00	0.00	0.00
	LSD (P=0.05)		0.000	0.000	0.000
<b>SRPL20-416-336FE</b>	Timing of assessment date	DA-A	10 DA-A 10.07.2020	17 DA-A 17.07.2020	- -
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	Asystent+	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	-
	Decis Mega 50 EW	0.13	0.00	0.00	-
	Fastac Active 50 ME	0.30	0.00	0.00	-

	LSD (P=0.05)		0.000	0.000	-
SRPL20-417-336FE	Timing of assessment date	DA-A	9 DA-A 09.07.2020	16 DA-A 16.07.2020	-
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	Asystent+	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	-
	Decis Mega 50 EW	0.13	0.00	0.00	-
	Fastac Active 50 ME	0.30	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	-
A.T/2021/088/PO	Timing of assessment date	DA-A	1 DA-A 24.06.2021	8 DA-A 01.07.2021	-
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0	-
	CHR/I/ADEL 280 SC	0.08	0.000	0	-
	CHR/I/ADEL 280 SC	0.08	0.000	0	-
	Asystent+	0.1	0.000	0	-
	CHR/I/ADEL 280 SC	0.1	0.000	0	-
	CHR/I/ADEL 280 SC	0.12	0.000	0	-
	CHR/I/ADEL 280 SC	0.14	0.000	0	-
	CHR/I/ADEL 280 SC	0.16	0.000	0	-
	Decis Mega 50 EW	0.13	0.000	0	-

	Fastac Active 50 ME	0.30	0.000	0	-
	LSD (P=0.05)		0.000	-	0.000
A.T/2021/089/PO	Timing of assessment	DA-A	1 DA-A	8 DA-A	-
	date		25.06.2021	02.07.2021	-
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-
	Decis Mega 50 EW	0.13	0.000	0.000	-
	Fastac Active 50 ME	0.30	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	-
A.T/2021/090/PO	Timing of assessment	DA-A	2 DA-A	8 DA-A	-
	date		30.06.2021	06.07.2021	-
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-



	Decis Mega 50 EW	0.13	0.000	0.000	-
	Fastac Active 50 ME	0.30	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	-
A.T/2021/091/PO	Timing of assessment	DA-A	3 DA-A	9 DA-A	-
	date		29.06.2021	05.07.2021	-
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-
	Decis Mega 50 EW	0.13	0.000	0.000	-
	Fastac Active 50 ME	0.30	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	-
SRPL21-450-336FE	Timing of assessment	DA-A	3 DA-A	8 DA-A	14 DA-A
	date		03.07.2021	08.07.2021	14.07.2021
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000

	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Decis Mega 50 EW	0.13	0.000	0.000	0.000
	Fastac Active 50 ME	0.30	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000
SRPL21-451-336FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A
	date	-	07.07.2021	14.07.2021	21.07.2021
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Decis Mega 50 EW	0.13	0.000	0.000	0.000
	Fastac Active 50 ME	0.30	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000

Table 4 – data from phytotoxicity trials – winter triticale, Poland 2020 and 2021 (efficacy trials)

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %		
SRPL20-415-336FE	Timing of assessment	DA-A	6 DA-A	14 DA-A	
	date		13.07.2020	20.07.2020	
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-

	Asystent+	0.10			
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	-
SRPL20-418-336FE	Timing of assessment date	DA-A	13 DA-A 13.07.2020	20 DA-A 20.07.2020	
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	Asystent+	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	-
AI/20/PszO/24/Gr/02	Timing of assessment date	DA-A	3 DA-A 29.06.2020	7 DA-A 03.07.2020	
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	-
	Asystent+	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	-

	CHR/I/ADEL 280 SC	0.14	0.00	0.00	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	-
	LSD (P=0.05)		0.000	0.000	-
A.T/2021/092/PŽO	Timing of assessment date	DA-A 	3 DA-A 21.06.2021	7 DA-A 25.06.2021	 
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	-
A.T/2021/093/PŽO	Timing of assessment date	DA-A 	2 DA-A 25.06.2021	9 DA-A 02.07.2021	- -
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-

	Decis Mega 50 EW	0.15	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	-
A.T/2021/094/PŽO	Timing of assessment	DA-A	2 DA-A	8 DA-A	-
	date		26.06.2021	02.07.2021	-
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	-
A.T/2021/095/PŽO	Timing of assessment	DA-A	3 DA-A	9 DA-A	-
	date		29.06.2021	05.07.2021	-
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-
	Decis Mega 50 EW	0.15	0.000	0.000	-

	LSD (P=0.05)		0.000	0.000	-
SRPL21-452-336FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A
	date	-	28.06.2021	05.07.2021	12.07.2021
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Fastac Active 50 ME	0.30	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000
SRPL21-453-336FE	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A
	date	-	16.06.2021	23.06.2021	30.06.2021
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Fastac Active 50 ME	0.30	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000

SRPL21-454-336FE	Timing of assessment date	DA-A	7 DA-A 07.07.2021	14 DA-A 14.07.2021	
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Fastac Active 50 ME	0.30	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000
SRPL21-455-336FE	Timing of assessment date	DA-A	3 DA-A 28.06.2021	8 DA-A 03.07.2021	14 DA-A 09.07.2021
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Fastac Active 50 ME	0.30	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000
SRPL21-456-336FE	Timing of assessment date	DA-A	7 DA-A	14 DA-A	

	date		22.06.2021	25.06.2021	
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-
	Asystent+	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-
	Fastac Active 50 ME	0.30	0.000	0.000	-
	LSD (P=0.05)		0.000	0.000	-
	Timing of assessment	DA-A	7 DA-A	14 DA-A	21 DA-A
	date		16.06.2021	23.06.2021	30.06.2021
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Fastac Active 50 ME	0.30	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000
SRPL21-457-336FE	Timing of assessment	DA-A	2 DA-A	7 DA-A	14 DA-A
	date		05.06.2021	10.06.2021	17.06.2021



	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Decis Mega 50 EW	0.15	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000
AI/21/PszO/20/Ra/2	Timing of assessment date	DA-A	3 DA-A 24.06.2021	7 DA-A 28.06.2021	14 DA-A 05.07.2021
	Untreated Check	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000
	Asystent+	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000
	Decis Mega 50 EW	0.15	0.000	0.000	0.000
	LSD (P=0.05)		0.000	0.000	0.000

Table 5 – data from phytotoxicity trials – sugar beet, Poland 2020 and 2021 (selectivity trials)

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %					
SRPL20-419-336FE	Timing of assessment date	DA-A	1DA-A 23.05.2020	3 DA-A 25.05.2020	7 DA-A 29.05.2020	14 DA-A 05.06.2020	28 DA-A 19.06.2020	56 DA-A 17.07.2020
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00	0.00	0.00
	Asystent+	0.10	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	0.00	0.00	0.00
	Decis Mega 50 EW	0.2	0.00	0.00	0.00	0.00	0.00	0.00
LSD (P=0.05)			0.000	0.000	0.000	0.000	0.000	0.000
SRPL20-420-336FE	Timing of assessment date	DA-A	1 DA-A 30.05.2020	3 DA-A 01.06.2020	7 DA-A 05.06.2020	14 DA-A 12.06.2020	28 DA-A 26.06.2020	56 DA-A 24.07.2020
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00	0.00	0.00
	Asystent+	0.10	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	0.00	0.00	0.00
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	0.00	0.00	0.00
	Decis Mega 50 EW	0.2	0.00	0.00	0.00	0.00	0.00	0.00
LSD (P=0.05)			0.000	0.000	0.000	0.000	0.000	0.000

SRPL20-421-336FE	Timing of assessment date	DA-A	7 DA-A 09.06.2020	14 DA-A 16.06.2020	28 DA-A 30.06.2020	56 DA-A 28.07.2020	- -	- -
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	0.00	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.08	0.00	0.00	0.00	0.00	-	-
	Asystent+	0.10	0.00	0.00	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.10	0.00	0.00	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.12	0.00	0.00	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.14	0.00	0.00	0.00	0.00	-	-
	CHR/I/ADEL 280 SC	0.16	0.00	0.00	0.00	0.00	-	-
	Decis Mega 50 EW	0.2	0.00	0.00	0.00	0.00	-	-
LSD (P=0.05)			0.000	0.000	0.000	0.000	-	-
AI/20/Bc/24/Lu/01	Timing of assessment date	DA-A	7 DA-A 25.05.2020	- -	- -	- -	- -	- -
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.00	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.00	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.00	-	-	-	-	-
	Asystent+	0.10	0.00	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.10	0.00	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.00	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.00	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.00	-	-	-	-	-
	Decis Mega 50 EW	0.2	0.00	-	-	-	-	-
LSD (P=0.05)			0.000	-	-	-	-	-
A.T/2021/081/BC	Timing of assessment	DA-A	1 DA-A	8 DA-A	12 DA-A	-	-	-

	date		31.05.2021	07.06.2021	11.06.2021			
	Untreated Check							
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.08						
	Asystent+	0.1	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000			
	Decis Mega 50 EW	0.15	0.000	0.000	0.000			
	LSD (P=0.05)		0.000	0.000	0.000			
	Timing of assessment	DA-A	1 DA-A	7 DA-A	14 DA-A			
	date		15.06.2021	21.06.2021	28.06.2021			
	Untreated Check							
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.08						
	Asystent+	0.1	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000			
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000			
	Decis Mega 50 EW	0.15	0.000	0.000	0.000			
	LSD (P=0.05)		0.000	0.000	0.000			
A.T/2021/082/BC	Timing of assessment	DA-A	2 DA-A	9 DA-A	14 DA-A			
	date		28.05.2021	04.06.2021	09.06.2021			

	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
A.T/2021/084/BC	Timing of assessment	DA-A	2 DA-A	7 DA-A	14 DA-A	-	-	-
	date	-	12.06.2021	17.06.2021	24.06.2021	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
A.T/2021/085/BC	Timing of assessment	DA-A	3 DA-A	8 DA-A	14 DA-A	-	-	-
	date	-	18.06.2021	23.06.2021	29.06.2021	-	-	-
	Untreated Check	-	-	-	-	-	-	-

	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
A.T/2021/086/BC	Timing of assessment	DA-A	7 DA-A	14 DA-A	-	-	-	-
	date	-	11.06.2021	18.06.2021	-	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
A.T/2021/087/BC	Timing of assessment	DA-A	7 DA-A	15 DA-A	-	-	-	-
	date	-	07.06.2021	15.06.2021	-	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	-	-	-	-

	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	-	-	-	-
	Asystent+	0.1			-	-	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	-	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	-	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	-	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	-	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	-	-	-	-
	LSD (P=0.05)		0.000	0.000	-	-	-	-
AI/21/BC/18/Br/1	Timing of assessment date	DA-A	22 DA-A 11.06.2021	29 DA-A 18.06.2021	-	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1			0.000	-	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
AI/21/BC/18/La/2	Timing of assessment date	DA-A	14 DA-A 07.06.2021	21 DA-A 14.06.2021	28 DA-A 21.06.2021	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-

	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1						
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
AI/21/BC/18/Mr/3	Timing of assessment date	DA-A	10 DA-A 10.06.2021	17 DA-A 17.06.2021	24 DA-A 24.06.2021	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1						
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
AI/21/BC/18/Ko/4	Timing of assessment date	DA-A	11 DA-A 11.06.2021	18 DA-A 18.06.2021	25 DA-A 25.06.2021	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-



	Asystent+	0.1						
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-
AI/21/BC/18/ZI	Timing of assessment	DA-A	2 DA-A	7 DA-A	14 DA-A	-	-	-
	date		27.05.2021	01.06.2021	08.06.2021	-	-	-
	Untreated Check	-	-	-	-	-	-	-
	CHR/I/ADEL 280 SC	0.06	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.08	0.000	0.000	0.000	-	-	-
	Asystent+	0.1				-	-	-
	CHR/I/ADEL 280 SC	0.1	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.12	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.14	0.000	0.000	0.000	-	-	-
	CHR/I/ADEL 280 SC	0.16	0.000	0.000	0.000	-	-	-
	Decis Mega 50 EW	0.15	0.000	0.000	0.000	-	-	-
	LSD (P=0.05)		0.000	0.000	0.000	-	-	-

Table 6 – data from phytotoxicity trials Poland 2019, 2020 and 2021

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
ILRzo-20-46	Institute of Plant Protection -	Sośnicowice, Poland	04.10.2019	winter oilseed ra-	Randomized Comple-	Soil type sandy

	National Research Institute, Sosnowice Branch ul. Gliwicka 29 44-153 Sosnowice, Poland			pe/Visby F N	te Block (RCB) EPPO PP 1/135 (4) 4	loam Soil pH 6.2
<b>A.T/2019/085/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Wronczyn, Poland	26.09.2019 BBCH 14-16	winter oilseed rape/ Dominator F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil pH 5.9
<b>A.T/2019/086/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Wronczyn, Poland	07.11.2019 BBCH 17-21	winter oilseed rape/ Dominator F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil pH 5.9
<b>AI/19/RO/27/ZI/ADEL</b>	Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28 60-637 Poznań, Poland	Złotniki, Poland	15.10.2019 BBCH 15-17	winter oilseed rape/Harry F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil pH 6.4
<b>A.T/2020/027/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Brzeźno k. Gołańczy, Poland	08.04.2020 BBCH 50-55	winter oilseed rape/ Kuga F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil pH 6.1
<b>A.T/2020/029/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Wronczyn, Poland	10.04.2020 BBCH 50-60	winter oilseed rape/ Dominator F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil pH 5.9
<b>A.T/2020/030/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3	Duża Cerkwica, Poland	22.04.2020 BBCH 55-59	winter oilseed rape/ Kuga F	Randomized Complete Block (RCB) EPPO PP 1/135 (4)	loamy sand Soil pH 5.5

	88-300 Mogilno, Poland			N	4		
<b>A.T/2020/031/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Wronczyn, Poland	24.04.2020  BBCH 60-65	winter oilseed rape/ Dominator  F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4) 4	Soil type  Soil pH	loamy sand  5.9
<b>A.T/2020/032/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Trzeciewnica, Poland	07.05.2020  BBCH 65-67	winter oilseed rape/ Kuga  F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4) 4	Soil type  Soil pH	sandy loam  7.5
<b>A.T/2020/085/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Trzeciewnica, Poland	22.05.2020  BBCH 67-70	winter oilseed rape/ Kuga  F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4) 4	Soil type  Soil pH	sandy loam  7.5
<b>AI/20/RO/7/NW/ADEL</b>	Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28 60-637 Poznań, Poland	Niewolno, Poland	23.03.2020  BBCH 30-34	winter oilseed ra- pe/Harry  F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4) 4	Soil type  Soil pH	loamy sand  6.6
<b>SRPL20-413-336FE</b>	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Teresin, Poland	30.06.2020  BBCH 71-75	winter wheat/ Kili- manjaro  F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4) 4	Soil type  Soil pH	sandy clay loam  6.5
<b>SRPL20-414-336FE</b>	SynTech Research Poland Sp. z o. o.  ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Samborowao, Poland	04.07.2020  BBCH 75-76	winter wheat/ Ostroga  F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4) 4	Soil type  Soil pH	sandy loam  5.4
<b>SRPL20-416-336FE</b>	SynTech Research Poland	Tonowo, Poland	03.07.2020	winter wheat/ Arkadia	Randomized Comple-	Soil type	sandy

	Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland		BBCH 73	F N	te Block (RCB) EPPO PP 1/135 (4) 4	Soil pH 6.1 loam
<b>SRPL20-417-336FE</b>	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Murczyn, Poland	30.06.2020 BBCH 75	winter wheat/ Hondia F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type clayey sand Soil pH 6.8
<b>SRPL20-415-336FE</b>	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Jankowice Wielkie, Poland	06.07.2020 BBCH 73-77	winter triticale/ Fredro F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy clay loam Soil pH 6.9
<b>SRPL20-418-336FE</b>	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Owczary, Poland	06.07.2020 BBCH 71-75	winter triticale/ Trape-ro F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.3
<b>AI/20/PszO/24/Gr/02</b>	Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28 60-637 Poznań, Poland	Gorzyń, Poland	26.06.2020 BBCH 73-75	winter triticale/ Tadeus F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.2
<b>SRPL20-419-336FE</b>	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Turze, Poland	22.05.2020 BBCH 12-13	sugar beet/ Sobieski F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.1
<b>SRPL20-420-336FE</b>	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Borzęcin, Poland	29.05.2020 BBCH 13-14	sugar beet/ Jagienka F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.8

<b>SRPL20-421-336FE</b>	SynTech Research Poland Sp. z o. o. ul. Jagiellońska 69/1 85-027 Bydgoszcz, Poland	Pogorzela, Poland	02.06.2020  BBCH 13-15	sugar beet/ Kujavia  F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type clay loam Soil pH 6.6
<b>AI/20/Bc/24/Lu/01</b>	Poznań University of Life Sciences, Research and Education Center Gorzyń ul. Wojska Polskiego 28 60-637 Poznań, Poland	Lubiń, Poland	18.05.2020  BBCH 14-15	sugar beet/ Krajan  F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type course sandy loam Soil pH 6.8
<b>A.T/2020/116/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Batorowo/ Poland	09.10.2020  BBCH 14-17	winter oilseed rape/ ES Cesario F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 7.6
<b>A.T/2020/117/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Duża Cerkwica/ Poland	22.10.2020  BBCH 14-18	winter oilseed rape/ Kuga F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 7.6
<b>A.T/2020/118/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Stare Młodochowo/ Poland	22.10.2020  BBCH 12-14	winter oilseed rape/ Hamilton F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 4.5
<b>A.T/2020/119/RZO</b>	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Lusówko/ Poland	23.10.2020  BBCH 14-17	winter oilseed rape/ Addition F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4)	Soil type sandy loam Soil pH 5.7

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A.T/2020/120/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Suchary/ Poland	28.10.2020 BBCH 14-17	winter oilseed rape/ Dominator F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil type Soil pH 6.1
A.T/2020/121/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Stare Młodowo/ Poland	22.10.2020 BBCH 10-12	winter oilseed rape/ Hamilton F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil type Soil pH 4.5
AI/20/RO/36/Pr/1	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Przybroda/ Poland	17.09.2020 BBCH 12-16	winter oilseed rape/ Harry F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil type Soil pH 6.0
AI/20/RO/36/Zł/2	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Złotniki/ Poland	21.09.2020 BBCH 12-13	winter oilseed rape/ Graf F1 F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil type Soil pH 6.0
AI/20/RO/36/Br/3	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Brody/ Poland	18.09.2020 BBCH 14-15	winter oilseed rape/ Berny F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	loamy sand Soil type Soil pH 6.0

4I/2021	Institute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Po- land	Sosnicowice/ Poland	24.09.2020  BBCH 14-15	winter oilseed rape/ Alibaba F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4)  4	Soil type sandy clay loam  Soil pH 6.1
5I/2021	Institute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Po- land	Lany Wielkie / Poland	24.09.2020  BBCH 14-15	winter oilseed rape/ Visby F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4)  4	Soil type sandy loam  Soil pH 6.6
6I/2021	Institute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Po- land	Lany Wielkie / Poland	09.10.2020  BBCH 17-18	winter oilseed rape/ Visby F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4)  4	Soil type sandy loam  Soil pH 6.6
A.T/2021/001/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Modrze/ Poland	26.03.2021  BBCH 30-35	winter oilseed rape/ Dominator F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4)  4	Soil type loamy sand  Soil pH 6.5
A.T/2021/002/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Czesławice/ Poland	30.03.2021  BBCH 32-35	winter oilseed rape/ Kuga F N	Randomized Comple- te Block (RCB)  EPPO PP 1/135 (4)  4	Soil type sandy loam  Soil pH 6.2
A.T/2021/003/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Wilkowo/ Poland	30.03.2021  BBCH 33-37	winter oilseed rape/ Umberto F	Randomized Comple- te Block (RCB)	Soil type sandy loam  Soil pH

				N	EPPO PP 1/135 (4) 4	4.8
A.T/2021/004/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Szapsk/ Poland	30.03.2021 BBCH 30-35	winter oilseed rape/ KWS Riccardo F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type Sand Soil pH 6.3
A.T/2021/005/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Szyszk-Folwark/ Poland	19.04.2021 BBCH 35-39	winter oilseed rape/ Polana F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH
A.T/2021/006/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Modrze/ Poland	17.04.2021 BBCH 39-50	winter oilseed rape/ Dominator F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.5
A.T/2021/007/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Jęczniki Wielkie/ Poland	31.03.2021 BBCH 30-35	winter oilseed rape/ LG Aviron F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 4.8
A.T/2021/008/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Szapsk/ Poland	12.04.2021 BBCH 35-39	winter oilseed rape/ KWS Riccardo F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4)	Soil type Sand Soil pH 6.3



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A.T/2021/009/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Jęczniki Wielkie/ Poland	10.05.2021 BBCH 51-55	winter oilseed rape/ LG Aviron F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 4.8
A.T/2021/010/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Szyszkki-Folwark/ Poland	30.04.2021 BBCH 55-59	winter oilseed rape/ Polana F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.5
A.T/2021/064/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Jęczniki Wielkie/ Poland	19.05.2021 BBCH 63-67	winter oilseed rape/ Umberto F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 5.8
A.T/2021/065/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Batorowo/ Poland	12.05.2021 BBCH 65-67	winter oilseed rape/ Dominador F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.3
A.T/2021/066/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Kakulin/ Poland	24.05.2021 BBCH 65-69	winter oilseed rape/ LG Aviron F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 5.1

AI/21/RO/4/Pr/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Przybroda/ Poland	13.04.2021 BBCH 35	winter oilseed rape/ Harry F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.0
AI/21/RO/4/Zł/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Złotniki/ Poland	31.03.2021 BBCH 30	winter oilseed rape/ Graf F1 F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.0
AI/21/RO/4/Br/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Brody/ Poland	01.04.2021 BBCH 39	winter oilseed rape/ Berny F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.0
AI/21/RO/14/Ma/ADEL	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Machary/ Poland	20.05.2021 BBCH 61-69	winter oilseed rape/ Harry F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy clay Soil pH 6.0
CH-WR-I-ADEL-2021-01	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernożia	Waliszew/ Poland	24.04.2021 BBCH 55	winter oilseed rape/ Kuga F1 F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.1
CH-WR-I-ADEL-2021-02	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4	Gabin/ Poland	24.04.2021	winter oilseed rape/ Kuga F1 F	Randomized Complete Block (RCB)	Soil type sandy clay Soil pH

	99-412 Kiernožia		BBCH 55	N	EPPO PP 1/135 (4) 4	6.5
CH-WR-I-ADEL-2021-03	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernožia	Gabin/ Poland	13.05.2021 BBCH 65	winter oilseed rape/ Kuga F1 F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.1
CH-WR-I-ADEL-2021-04	PerfectBAD Justyna Rezmerska-Piętka ul. Przytargowa 4 99-412 Kiernožia	Gabin/ Poland	12.05.2021 BBCH 65-67	winter oilseed rape/ Kuga F1 F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy clay Soil pH 6.5
SRPL21-401-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Tomarynki/ Poland	11.05.2021 BBCH 51-53	winter oilseed rape/ DK Exquisite F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 5.1
SRPL21-402-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Osówka/ Poland	12.05.2021 BBCH 57-59	winter oilseed rape/ Bazyl F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy clay Soil pH 6.2
9I/2021	Institute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Poland	Lany Wielkie/ Poland	20.04.2021 BBCH 39-50	winter oilseed rape/ Architect F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.1

10I/2021	Istitute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Po- land	Lany Wielkie/ Poland	20.04.2021 BBCH 39-50	winter oilseed ra- pe/Alibaba F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.6
11I/2021	Istitute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Po- land	Sosnicowice/ Poland	14.05.2021 BBCH 65-67	winter oilseed ra- pe/Birdy F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy clay loam Soil pH 6.2
12I/2021	Istitute of Plant Protection - National Research Institute, Sosnicowice Branch ul. Gliwicka 29 44-153 Sośnicowice, Po- land	Lany Wielkie/ Poland	14.05.2021 BBCH 65	winter oilseed rape/ Architect F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.1
A.T/2021/088/PO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Batorowo/ Poland	23.06.2021 BBCH 73-75	winter wheat/ RGT Kilimanjaro F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 7.5
A.T/2021/089/PO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Nowa Wieś Ujska/ Poland	24.06.2021 BBCH 65-71	winter wheat/ Euclide F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 4.8
A.T/2021/090/PO	A.T Sp. z o.o.	Nowy Dwór/ Poland	28.06.2021	winter wheat/ RGT	Randomized Comple-	Soil type sandy

	ul. Przemysłowa 3 88-300 Mogilno		BBCH 69-73	Bilanz F N	te Block (RCB) EPPO PP 1/135 (4) 4	Soil pH loam 5.6
A.T/2021/091/PO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Kielbowo/ Poland	26.06.2021 BBCH 67-69	winter wheat/ Tonna- ge F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.5
SRPL21-450-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Jankowice Wielkie/ Poland	30.06.2021 BBCH 73-75	winter wheat/ Asory F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.4
SRPL21-451-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Gietrzwałd/ Poland	30.06.2021 BBCH 68-71	winter wheat/ Findus F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 4.9
A.T/2021/092/PZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Modrze/ Poland	18.06.2021 BBCH 73-77	winter triticale/ Me- loman F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.6
A.T/2021/093/PZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Nowa Wieś Ujska/ Poland	23.06.2021 BBCH 69-73	winter triticale/ Lom- bardo F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4)	Soil type sandy loam Soil pH 4.6

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A.T/2021/094/PŻO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Suchary/ Poland	24.06.2021 BBCH 69-73	winter triticale/ Ori- noko F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.3
A.T/2021/095/PŻO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Studzieniec/ Poland	26.06.2021 BBCH 65-69	winter triticale/ Me- loman F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type Sand Soil pH 6.1
AI/21/PszO/20/Pr/1	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Przybroda/ Poland	03.06.2021 BBCH 49	winter triticale/ Gre- nado F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.0
AI/21/PszO/20/Ra/2	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Rataje/ Poland	21.06.2021 BBCH 63	winter triticale/ Porto F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.9
SRPL21-452-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Tynwałd/ Poland	21.06.2021 BBCH 65-69	winter triticale/ Me- loman F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 5.5

SRPL21-453-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Osowka/ Poland	09.06.2021 BBCH 51-55	winter triticale/ Ro- tondo F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 5.5
SRPL21-454-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Tonowo/ Poland	30.06.2021 BBCH 71-73	winter triticale/ Bal- canto F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 6.0
SRPL21-455-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Sulinowo/ Poland	25.06.2021 BBCH 73-75	winter triticale/ Bo- rowik F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type Loam Soil pH 6.4
SRPL21-456-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Murczyn/ Poland	15.06.2021 BBCH 71-73	winter triticale/ Ro- tondo F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy clay loam Soil pH 6.5
SRPL21-457-336FE	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska, 85-027 Bydgoszcz, Poland	Tomaszkowo/ Poland	09.06.2021 BBCH 61-65	winter triticale/ Ro- tondo F N	Randomized Comple- te Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 5.2
A.T/2021/081/BC	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Gaj Wielki/ Poland	30.05.2021 BBCH 12-14	sugar beet/ Toleranza KWS F	Randomized Comple- te Block (RCB)	Soil type sandy loam Soil pH

				N	EPPO PP 1/135 (4) 4	6.4
A.T/2021/082/BC	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Żabiczyn/ Poland	14.06.2021 BBCH 14-19	sugar beet/ Marynia F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.5
A.T/2021/083/BC	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Jeziorki Kosztowskie/ Poland	26.05.2021 BBCH 12-14	sugar beet/ Kujavia F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type sandy loam Soil pH 4.9
A.T/2021/084/BC	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Suchary/ Poland	10.06.2021 BBCH 17-19	sugar beet/ Kujavia F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 7.5
A.T/2021/085/BC	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Szapsk/ Poland	15.06.2021 BBCH 18-19	sugar beet/ Smart Latoria KWS F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.6
A.T/2021/086/BC	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Trzeciewnica/ Poland	04.06.2021 BBCH 12-16	sugar beet/ Jantar F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 5.3



A.T/2021/087/BC	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Studzieniec/ Poland	31.05.2021 BBCH 12-16	sugar beet/ FD Drift F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.2
AI/21/BC/18/Br/1	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Brody/ Poland	20.05.2021 BBCH 13	sugar beet/ Lancaster F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 5.9
AI/21/BC/18/La/2	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Laskowo/ Poland	24.05.2021 BBCH 12-13	sugar beet/ Gellert F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 5.9
AI/21/BC/18/Mr/3	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Mrowino/ Poland	31.05.2021 BBCH 13-14	sugar beet/ Panorama F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.1
AI/21/BC/18/Ko/4	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Kokoszczyń/ Poland	31.05.2021 BBCH 13-14	sugar beet/ Toleranza F N	Randomized Complete Block (RCB) EPPO PP 1/135 (4) 4	Soil type loamy sand Soil pH 6.0
AI/21/BC/18/Zł	Poznań University of Life	Złotnik/ Poland	25.05.2021	sugar beet/ Jagiellon	Randomized Comple-	Soil type loamy

	Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań		BBCH 13	F N	te Block (RCB) EPPO PP 1/135 (4) 4	Soil pH sand 5.4
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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