FINAL REGISTRATION REPORT

Part B

Section 3

Efficacy Data and Information

Concise summary

Product code: CLOROL 200 SC

Product name(s): Catanga 200 SC, Boland 200 SC

Chemical active substances:

chlorantraniliprole, 200 g/L

Central Zone

Zonal Rapporteur Member State: Poland

Core dossier Poland

(authorization)

Applicant: Innvigo Sp. z o.o.

Submission date: October 2024

zRMS Assessment: 12 September 2025

Following commenting period/Verification List of References: 18 November 2025

Version history

When	What
October 2024	Dossier sent for evaluation
April 2025	Efficacy data update – highlighted in yellow
May 2025	Efficacy data update – highlighted in green
June 2025	Minimum effective dose data update – highlighted in turquoise
September 2025	zRMS assessment
November 2025	Following commenting period/Verification List of References

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No comments during commenting period.

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

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

Comments of zRMS:	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 visibly marked with the grey front.

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

Abstract

dRR point 3.1	ZRMS conclusion
This document has been prepared as the core dossier for the authorisation of CLOROL 200 SC according to the bridging concept using unprotected efficacy data of plant protection product Coragen 200 SC - art. 34 of the Regulation 1107/2009 (uses No.: 1, 2, 4, 5 in the GAP table). Furthermore, the applicant requested additionally authorisation of the product for use on winter oilseed rape against CEUPRL and DASYBR, which is not covered by the authorisation of the reference product Coragen 200 SC (use No.: 3 in the GAP table). The overall assessment was performed according to the uniform principles. ZRMS considers that the data provided supports the following uses: 1, 2, 3, 4, 6 presented in the GAP table. As a result of the dossier evaluation, it is proposed to place on the product label information: - possibility that the product can only limited DASYBR at high pest pressure, in the protection of winter oilseed rape - the dose 0,125 l/ha can perform medium effectively against CARPPO in apple protection.	

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

GAP rev. , date: 2024-05-24

PPP (product name/code):	CLOROL 200 SC/ Catanga 200 SC/ Boland 200 SC	Formulation type:	SC [a, b]
Active substance 1:	chlorantraniliprole	Conc. of as 1:	200 g/L[c]
Active substance 2:	-	Conc. of as 2:	- [c]
Active substance 3:	-	Conc. of as 3:	- [c]
Safener:	-	Conc. of safener:	- [c]
Synergist:	-	Conc. of synergist:	- [c]
Applicant:	Innvigo Sp. z o.o.	Professional use:	☒
Zone(s):	Central [d]	Non professional use:	☐
Verified by MS:	No		

Field of use: insecticide

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. [e]	**Member state(s)**	**Crop and/ or situation (crop destination / purpose of crop)**	**F, Fn, Fpn G, Gn, Gpn or I**	**Pests or Group of pests controlled** (additionally: developmental stages of the pest or pest group)	**Application**				**Application rate**			**PHI** (days)	**Remarks:** e.g. g safener/synergist per ha [f]	**Conclusion**
					Method / Kind	Timing / Growth stage of crop & season	Max. number a) per use b) per crop/ season	Min. interval between applications (days)	kg or L product / ha a) max. rate per appl. b) max. total rate per crop/season	g or kg as/ha a) max. rate per appl. b) max. total rate per crop/season	Water L/ha min / max			
Zonal uses (field or outdoor uses, certain types of protected crops)														
1	PL	Potato *Solanum tuberosum* SOL-TU	F	*Leptinotarsa decemlineata* LPTNDE	Spray, medium sprayer	after the pest occurrence, BBCH 31-60	a) 1 b) 2	10	a) 0.050-0.0625 L/ha b) 0.125 L/ha	a) 10.0-12.5 g as/ha b) 25 g as/ha	150-400	14		
2	PL	Maize *Zea mays* ZEAMX	F	*Ostrinia nubilalis* PYRUNU	Spray, medium sprayer	BBCH 53-69	a) 1 b) 1	n/a	a) 0.125 L/ha b) 0.125 L/ha	a) 25 g as/ha b) 25 g as/ha	300-400	7		
3	PL	Winter oilseed rape *Brassica napus var. napus* BRSNW	F	*Ceutorhynchus assimilis* CEUTPL, *Dasyneura brassicae* DASYBR	Spray, medium sprayer	BBCH 61-71	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	200-300	7		DASYBR- the product can limiting the number of pest

														at high pest pressure.
4	PL	Apple *Malus domestica* MABSD	F	*Cydia pomonella* CARPPO	Spray, medium sprayer	BBCH 70-87 (after the pest occurrence)	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14		The product medium effective at 0,125 l/ha
5	PL	Apple *Malus domestica* MABSD	F	*Tortricidae* 1TORTF	Spray, medium sprayer	BBCH 56 or BBCH 70-87 (in summer, in time of intensive insect infestation)	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14		
Interzonal uses (use as seed treatment, in greenhouses (or other closed places of plant production), as post-harvest treatment or for treatment of empty storage rooms)														
6														
Minor uses according to Article 51 (zonal uses)														
7	PL	Sugar beet *Beta vulgaris* subsp. *vulgaris* var. *altissima* BEAVA	F	*Asproparthenis punctiventris* CLEOPU, *Scrobipalpa ocellatella* PHTOOC	Spray, medium sprayer	BBCH 31-49	a) 1 b) 1	n/a	a) 0.10 L/ha + 0.1 L/ha adjuvant Asystent+ b) 0.10 L/ha+ 0.1 L/ha adjuvant Asystent+	a) 20 g as/ha + 0.1 L/ha adjuvant Asystent+ b) 20 g as/ha + 0.1 L/ha adjuvant Asystent+	150-200	28		
8	PL	Sweet Potato *Ipomoea batatas* IPOBA	F	*Autographa gamma* PYTOGA, *Delia florilega* HYLEFG	Spray, medium sprayer	after the pest occurrence, BBCH 31-60	a) 1 b) 2	10	a) 0.050-0.0625 L/ha b) 0.125 L/ha	a) 10.0-12.5 g as/ha b) 25 g as/ha	150-400	14		
9	PL	Yams *Dioscorea* L. 1DIUG	F	*Trialeurodes vaporariorum* TRIAVA, *Thysanoptera* 1THYSO, *Tetranychus* 1TETRG	Spray, medium sprayer	after the pest occurrence, BBCH 31-60	a) 1 b) 2	10	a) 0.050-0.0625 L/ha b) 0.125 L/ha	a) 10.0-12.5 g as/ha b) 25 g as/ha	150-400	14		
10	PL	Carrot *Daucus carota* subsp. *sativus* DAUCS	F	*Chamaepsila rosae* PSILRO, *Autographa gamma* PYTOGA	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
11	PL	Beetroot *Beta vulgaris* subsp. *vulgaris* var. *conditiva* BEAVD	F	*Athalia rosae* ATALCO, *Barathra brassicae* BARABR, *Pieris brassicae* PIERBR, *Plutella maculipennis* PLUTMA, *Delia radicum* HYLERA, *Artogeia rapae* PIERRA,	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
12	PL	Horseradish *Armoracia rusticana* ARWLA	F	*Athalia rosae* ATALCO, *Barathra brassicae* BARABR, *Pieris brassicae* PIERBR, *Plutella maculipennis* PLUTMA, *Delia radicum* HYLERA, *Ar-*	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		

				togeia rapae PIERRA,										
13	PL	Radish *Raphanus sativus* RAPSR	F	*Athalia rosae* ATALCO, *Barathra brassicae* BARABR, *Pieris brassicae* PIERBR, *Plutella maculipennis* PLUTMA, *Delia radicum* HYLERA, *Artogeia rapae* PIERRA,	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
14	PL	Celery *Apium graveolens* APUGV	F	*Chamaepsila rosae* PSILRO, *Autographa gamma* PYTOGA	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
15	PL	Jerusalem artichoke *Helianthus tuberosus* HELTU	F	*Autographa gamma* PYTOGA, *Homoeosoma nebulellum* HMOENE	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
16	PL	Parsley *Petroselinum crispum* PARCR	F	*Chamaepsila rosae* PSILRO, *Autographa gamma* PYTOGA	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
17	PL	Parsnip *Pastinaca sativa* PAVSA	F	*Chamaepsila rosae* PSILRO, *Autographa gamma* PYTOGA	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
18	PL	Salsify *Tragopogon porrifolius* TROPS	F	*Chamaepsila rosae* PSILRO, *Autographa gamma* PYTOGA	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
19	PL	Rutabaga *Brassica napus* subsp. *rapifera* BRSNA	F	*Athalia rosae* ATALCO, Brevicoryne brassicae BRVCBR, *Barathra brassicae* BARABR, *Pieris brassicae* PIERBR, *Plutella maculipennis* PLUTMA, *Delia radicum* HYLERA, *Artogeia rapae* PIERRA,	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
20	PL	Turnip *Brassica rapa* BRSRR	F	*Athalia rosae* ATALCO, *Barathra brassicae* BARABR, *Pieris brassicae* PIERBR, *Plutella maculipennis* PLUTMA, *Delia radicum* HYLERA, *Artogeia rapae* PIERRA,	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
21	PL	Scorzonera *Scorzonera hispanica* SCVHI	F	*Chamaepsila rosae* PSILRO, *Autographa gamma* PYTOGA	Spray, medium sprayer	BBCH 12-49	a) 1 b) 1	n/a	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	300-800	21		
22	PL	Sweet Corn *Zea mays* subsp. *saccharata* ZEAMS	F	*Ostrinia nubilalis* PYRUNU	Spray, medium sprayer	BBCH 53-69	a) 1 b) 1	n/a	a) 0.125 L/ha b) 0.125 L/ha	a) 25 g as/ha b) 25 g as/ha	300-400	7		

23	PL	Sweet cane *Saccharum officinarum* SACOF	F	*Ostrinia nubilalis* PYRUNU	Spray, medium sprayer	BBCH 53-69	a) 1 b) 1	n/a	a) 0.125 L/ha b) 0.125 L/ha	a) 25 g as/ha b) 25 g as/ha	300-400	7		
24	PL	Sorghum *Sorghum bicolor* SORVU	F	*Ostrinia nubilalis* PYRUNU	Spray, medium sprayer	BBCH 53-69	a) 1 b) 1	n/a	a) 0.125 L/ha b) 0.125 L/ha	a) 25 g as/ha b) 25 g as/ha	300-400	7		
25	PL	Millet *Panicum miliaceum* PANMI	F	*Ostrinia nubilalis* PYRUNU	Spray, medium sprayer	BBCH 53-69	a) 1 b) 1	n/a	a) 0.125 L/ha b) 0.125 L/ha	a) 25 g as/ha b) 25 g as/ha	300-400	7		
26	PL	Spring oilseed rape *Brassica napus var. napus* BRSNS	F	*Ceutorhynchus assimilis* CEUTPL, *Dasyneura brassicae* DASYBR, *Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassicogethes aeneus syn. Meligethes aeneus* MELIAE, *Plutella xylostella* PLUTMA, *Athalia rosae* ATALCO	Spray, medium sprayer	BBCH 61-71	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
27	PL	Flax *Linum usitatissimum* LIUUT	F	*Cochylis epilinana* PHAOEP, *Aphthona euphorbiae* APHTEU	Spray, medium sprayer	BBCH 61-71	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
28	PL	Opium poppy *Papaver somniferum* PAPSO	F	*Neoglocianus maculaalba* CEUTMA	Spray, medium sprayer	BBCH 61-65	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
29	PL	White mustard *Sinapis alba* SINAL	F	*Ceutorhynchus assimilis* CEUTPL, *Dasyneura brassicae* DASYBR, *Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassicogethes aeneus syn. Meligethes aeneus* MELIAE, *Plutella xylostella* PLUTMA, *Athalia rosae* ATALCO	Spray, medium sprayer	BBCH 61-65	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
30	PL	Winter Turnip rape *Brassica rapa* subsp. *oleifera* BRSRO	F	*Ceutorhynchus assimilis* CEUTPL, *Dasyneura brassicae* DASYBR, *Ceutorhynchus quadridens, syn. C. pallidactylus*	Spray, medium sprayer	BBCH 61-65	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		

				CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassico-gethes aeneus syn. Meli-gethes aeneus* MELIAE, *Plutella xylostella* PLUT-MA, *Athalia rosae* ATALCO,										
31	PL	Sunflower *Helianthus annuus* HELAN	F	*Autographa gamma* PYTOGA, *Homoeosoma nebulellum* HMOENE	Spray, medium sprayer	BBCH 61-65	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
32	PL	Soybean *Glycine max* GLXMA	F	*Delia florilega* HYLEFG, *Ostrinia nubilalis* PYRUNU	Spray, medium sprayer	BBCH 61-65	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
33	PL	Pumpkin *Cucur-bita pepo* CUUPE	F	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 61-65	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
34	PL	Hemp *Cannabis sativa* CNISA	F	*Ostrinia nubilalis* PYRUNU	Spray, medium sprayer	BBCH 61-65	a) 1 b) 1	n/a	a) 0.10-0.175 L/ha b) 0.10-0.175 L/ha	a) 20-35 g as/ha b) 20-35 g as/ha	200-300	7		
35	PL	White cabbage *Brassica oleracea* var. *capitata* f. *alba* BRSOH	F	*Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassico-gethes aeneus syn. Meli-gethes aeneus* MELIAE, *Delia radicum* HYLERA, *Athalia rosae* ATALCO, *Plutella xylostella* PLUT-MA, *Phyllotreta* sp. PHYESP, *Pieris rapae* PIERRA, *Mamestra brassi-cae* BARABR	Spray, medium sprayer	BBCH 20-49	a) 1 b) 2	14	a) 0.125 L/ha b) 0.250 L/ha	a) 25 g as/ha b) 50 g as/ha	200-600	1		
36	PL	Red cabbage *Brassica oleracea* var. *capitata* f. *rubra* BRSOR	F	*Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassico-gethes aeneus syn. Meli-gethes aeneus* MELIAE, *Delia radicum* HYLERA, *Athalia rosae* ATALCO, *Plutella xylostella* PLUT-MA, *Phyllotreta* sp. PHYESP, *Pieris rapae* PIERRA, *Mamestra brassi-cae* BARABR	Spray, medium sprayer	BBCH 20-49	a) 1 b) 2	14	a) 0.125 L/ha b) 0.250 L/ha	a) 25 g as/ha b) 50 g as/ha	200-600	1		
37	PL	Kale *Brassica oleracea* var. *viridis* BRSOA	F	*Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassico-gethes aeneus syn. Meli-*	Spray, medium sprayer	BBCH 20-49	a) 1 b) 2	14	a) 0.125 L/ha b) 0.250 L/ha	a) 25 g as/ha b) 50 g as/ha	200-600	1		

				gethes aeneus MELIAE, *Delia radicum* HYLERA, *Athalia rosae* ATALCO, *Plutella xylostella* PLUTMA, *Phyllotreta* sp. PHYESP									
38	PL	Chinese cabbage/pe-tsai *Brassica rapa* subsp. *pekinensis* BRSPK	F	*Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassicogethes aeneus syn. Meligethes aeneus* MELIAE, *Delia radicum* HYLERA, *Athalia rosae* ATALCO, *Plutella xylostella* PLUTMA, *Phyllotreta* sp. PHYESP	Spray, medium sprayer	BBCH 20-49	a) 1 b) 2	14	a) 0.125 L/ha b) 0.250 L/ha	a) 25 g as/ha b) 50 g as/ha	200-600	1	
39	PL	Brussels sprout *Brassica oleracea* var. *gemmifera* BRSOF	F	*Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassicogethes aeneus syn. Meligethes aeneus* MELIAE, *Delia radicum* HYLERA, *Athalia rosae* ATALCO, *Plutella xylostella* PLUTMA, *Phyllotreta* sp. PHYESP	Spray, medium sprayer	BBCH 20-49	a) 1 b) 2	14	a) 0.125 L/ha b) 0.250 L/ha	a) 25 g as/ha b) 50 g as/ha	200-600	1	
40	PL	Cauliflower *Brassica oleracea* var. *botrytis* BRSOB	F	*Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassicogethes aeneus syn. Meligethes aeneus* MELIAE, *Delia radicum* HYLERA, *Athalia rosae* ATALCO, *Plutella xylostella* PLUTMA, *Phyllotreta* sp. PHYESP	Spray, medium sprayer	BBCH 20-49	a) 1 b) 2	14	a) 0.125 L/ha b) 0.250 L/ha	a) 25 g as/ha b) 50 g as/ha	200-600	1	
41	PL	Broccoli *Brassica oleracea var. italica* BRSOK	F	*Ceutorhynchus quadridens, syn. C. pallidactylus* CEUTQU, *Ceu-torhynchus napi* CEUTNA, *Brassicogethes aeneus syn. Meligethes aeneus* MELIAE, *Delia radicum* HYLERA, *Athalia rosae* ATALCO, *Plutella xylostella* PLUTMA, *Phyllotreta* sp. PHYESP	Spray, medium sprayer	BBCH 20-49	a) 1 b) 2	14	a) 0.125 L/ha b) 0.250 L/ha	a) 25 g as/ha b) 50 g as/ha	200-600	1	

42	PL	Pear *Pyrus communis* PYUCO	F	*Cydia pomonella* CARPPO, *Dasineura pyri* DASYPY, *Contarinia pyrivora* CONTPY, *Tortricidae* 1TORTF	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
43	PL	Plum *Prunus domestic*a PRNDO	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
44	PL	Common quince *Cydonia oblonga* CYDOB	F	*Cydia pomonella* CARPPO, *Dasineura pyri* DASYPY, *Contarinia pyrivora* CONTPY, *Tortricidae* 1TORTF	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
45	PL	Wild Apple *Malus sylvestris* MABSY	F	*Cydia pomonella* CARPPO *Tortricidae* 1TORTF	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
46	PL	Chinese Pear *Pyrus pyrifolia* PYUPY	F	*Cydia pomonella* CARPPO, *Dasineura pyri* DASYPY, *Contarinia pyrivora* CONTPY, *Tortricidae* 1TORTF	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
47	PL	Common medlar *Mespilus germanica* MSPGE	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
48	PL	Loquats/Japanese medlars *Eriobotrya japonica* EIOJA	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
49	PL	Peach *Prunus persica* PRNPS	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
50	PL	Apricot *Prunus armeniaca* PRNAR	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
51	PL	Sour Cherry *Prunus cerasus* PRNCE	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
52	PL	Sweet cherry *Prunus avium* PRNAV	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	

53	PL	Hazelnuts/cobnuts *Corylus avellana* CYLAV	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
54	PL	Walnuts *Juglans regia* IUGRE	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
55	PL	Chestnuts *Castanea sativa* CSNSA	F	*Rhagoletis cerasi* RHAGCE, *Furcipus rectirostris* ANTHRE, *Grapholita funebrana* LASPFU	Spray, medium sprayer	BBCH 56-87	a) 2 b) 2	14	a) 0.125-0.175 L/ha b) 0.350 L/ha	a) 25-35 g as/ha b) 70 g as/ha	500-750	14	
56	PL	Table grape *Vitis vinifera* VITVI	F	*Tetranychus urticae* TETRUR, *Lobesia botrana* POLYBO, *Eupoecilia ambiguella* CLYSAM	Spray, medium sprayer	BBCH 57-BBCH 83	a)1 b)1	-	a) 0.270 L/ha b) 0.270 L/ha	a) 54 g as/ha b) 54 g as/ha	700-1500	30	
57	PL	Grapevine *Vitis vinifera* VITVI	F	*Lobesia botrana* POLYBO, *Eupoecilia ambiguella* CLYSAM	Spray, medium sprayer	BBCH 57-BBCH 83	a)1 b)1	-	a) 0.270 L/ha b) 0.270 L/ha	a) 54 g as/ha b) 54 g as/ha	700-1500	30	
58	PL	Tobacco *Nicotiana tabacum* NIOTA	F	*Mamestra brassicae* BARABR	Spray, medium sprayer	BBCH 20-85	a)1 b)2	7	a) 0.265-0.550 L/ha b) 0.530-1.100 L/ha	a) 53-110 g as/ha b) 106-220 g as/ha	600-1000	1	
59	PL	Grass	F	*Oulema* sp.OULESP	Spray, medium sprayer	BBCH 53-69	a) 1 b) 1	-	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	200-400	n/a	Only for seeds
60	PL	Christmas tree *Picea abies* PIEAB	F	*Collembola* 1COLLO, *Coleophora laricella* COLELA	Spray, medium sprayer	BBCH 11-69	a) 1 b) 1	-	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	200-400	n/a	
61	PL	Forestry tree	F	*Collembola* 1COLLO, *Coleophora laricella* COLELA	Spray, medium sprayer	BBCH 11-69	a) 1 b) 1	-	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	200-400	n/a	
62	PL	Ornamentals	F	*Collembola* 1COLLO, *Coleophora laricella* COLELA	Spray, medium sprayer	BBCH 11-69	a) 1 b) 1	-	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	200-400	n/a	
63	PL	Willow *Salix* sp. SAXSS	F	*Chrysomela populi* CHRSPO, *Phratora vulgatissima* PHRRVU, *Phyllodecta vitellinae* PHRRVI, *Earias clorana* EARICH, *Cecidomyiidae* 1CECIF	Spray, medium sprayer	>BBCH 69	a) 1 b) 1	-	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	200-750	n/a	
64	PL	Energetic tree	F	*Chrysomela populi* CHRSPO, *Phratora vulgatissima* PHRRVU, *Phyllodecta vitellinae* PHRRVI, *Earias clorana* EARICH, *Cecidomyiidae* 1CECIF	Spray, medium sprayer	>BBCH 69	a) 1 b) 1	-	a) 0.175 L/ha b) 0.175 L/ha	a) 35 g as/ha b) 35 g as/ha	200-750	n/a	

				Cecidomyiidae										
Minor uses according to Article 51 (interzonal uses)														
65	PL	Cucumber *Cucumis sativus* CUMSA	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	500-1200	1		
66	PL	Pepper *Capsicum annuum* CPSAN	G	*Autographa gamma* PY-TOGA, *Tuta absoluta* GNORAB	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.215 L/ha b) 0.28-0.43 L/ha	a) 28-43 g as/ha b) 56-86 g as/ha	300-1250	1		
67	PL	Tomato *Solanum lycopersicum* LYPES	G	*Autographa gamma* PY-TOGA, *Tuta absoluta* GNORAB	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.315 L/ha b) 0.28-0.63 L/ha	a) 28-63 g as/ha b) 56-126 g as/ha	500-1500	1		
68	PL	Lettuce *Lactuca sativa* LACSA	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
69	PL	Corn salad *Valerianella locusta* VLLLO	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
70	PL	Endive *Cichorium endivia* CICEN	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
71	PL	Garden cress *Lepidium sativum* LEPSA	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
72	PL	Arugula *Eruca vesicaria subsp. sativa* ERUVE	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
73	PL	Escaroles Cichorium endivia var. latifolia	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
74	PL	Cresses and other sprouts and shoots	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
75	PL	Land creses *Barbarea verna* BARVE	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
76	PL	Roman rock-et/rucola *Eruca vesicaria* subsp. *sativa* ERUVE	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
77	PL	Red Mustard *Brassica juncea* BRSJU	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
78	PL	Baby leaf crops	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1	7	a) 0.155-0.210 L/ha	a) 31-42 g as/ha	500-1000	1		

							b) 2		b) 0.310-0.420 L/ha	b) 62-84 g as/ha				
79	PL	Spinach *Spinacia oleracea* SPQOL	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
80	PL	Swiss Chard *Beta vulgaris subsp. vulgaris var. flavescens* BEAVF	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
81	PL	Chards/beet leaves	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
82	PL	Purslane *Portulaca oleracea* POROL	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		
83	PL	Melon *Cucumis melo* CUMME	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
84	PL	Aubergine *Solanum melongena* SOLME	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
85	PL	Okra/Lady's fingers Abelmoschus esculentus	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.215 L/ha b) 0.28-0.43 L/ha	a) 28-43 g as/ha b) 56-86 g as/ha	300-1250	1		
86	PL	Watermelon *Citrullus lanatus* CITLA	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
87	PL	Zucchini *Cucurbita pepo var. giromontiina* CUUPG	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
88	PL	Gherkins *Cucumis sativus* CUMSA	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
89	PL	Curgettes *Cucurbita pepo* CUUPE	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
90	PL	Spaghetti squash *Cucurbita pepo* subsp. *pepo* CUUPE	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
91	PL	Giant pumpkin *Cucurbita maxima* CUUMA	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		

92	PL	Canada crook-neck *Cucurbita moschata* CU-UMO	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
93	PL	Pumpkin *Cucurbita pepo* CUUPE	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
94	PL	Cucumber *Cucumis sativus* CUMSA	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
95	PL	Bush squash *Cucurbita melo-pepo* CUUPM	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 15-89	a) 1 b) 2	7	a) 0.14-0.25 L/ha b) 0.28-0.50 L/ha	a) 28-50 g as/ha b) 56-100 g as/ha	200-1000	1		
96	PL	Watercresses *Nasturtium officinale* NAAOF	G	*Delia florilega* HYLEFG	Spray, medium sprayer	BBCH 12-49	a) 1 b) 2	7	a) 0.155-0.210 L/ha b) 0.310-0.420 L/ha	a) 31-42 g as/ha b) 62-84 g as/ha	500-1000	1		

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
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/m³ 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

indicated.

* 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

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 CLOROL 200 SC containing active substance chlorantraniliprole 200 g/L against major pests in maize, potato, apple and winter oilseed rape.
In accordance with Article 34 of the Regulation (EC) No 1107/2009 of the European Parliament and of the Council and the guidelines of the Ministry of Agriculture and Rural Development in Poland, 12 bridging studies were submitted for the insecticide CLOROL 200 SC registration in maize and potato and 21 studies were submitted for the insecticide CLOROL 200 SC registration in apple.

CLOROL 200 SC applies in the Central Registration Zone for the registration of in:

- Maize at spring applied once per season BBCH 53-69 at the maximum dose 0.125 L/ha which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Ostrinia nubilalis*
- Potato at spring applied twice per season BBCH 31-60 at the maximum dose 0.05-0.0625 L/ha per application which are corresponding to 10-12.5 g a.s./ha of chlorantraniliprole per application for the control of *Leptinotarsa decemlineata*
- Apple at spring applied twice per season BBCH 56 and BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Tortricidae*
- Apple at spring applied twice per season BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Cydia pomonella*
- Winter oilseed rape at spring applied once per season BBCH 61-71 at the maximum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*

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

Chlorantraniliprole 200 g/L
Chemical name (IUPAC): 3-bromo-4'-chloro-1-(3-chloro-2-pyridyl)-2'-methyl-6'-(methylcarbamoyl) pyrazole-5-carboxanilide
CAS No.: 500008-45-7
According to Chlorantraniliprole_DAR_03_Volume 3 B1-B4.pdf
Chlorantraniliprole is a insecticidal active substance belonging to the chemical class of diamides for the control of larvae as well as some adults insects Chlorantraniliprole provides insect control through activation of the ryanodine receptors of the target insect. This activation of the ryanodine receptor stimulates the release of calcium from the internal stores of smooth and striated muscle. The result is impaired muscle regulation, paralysis and ultimately insect death. The process of insect muscle contraction involves modulation of two distinct calcium channels, voltage-gated calcium channels that regulate external calcium entry, and ryanodine receptor channels, which regulate release of internal calcium stores from the sarcoplasmic reticulum. Under normal physiological conditions, input from the nervous system activates voltage-gated calcium channels leading to a rise in intracellular calcium. This rise triggers activation of ryanodine receptor channels located on the sarcoplasmic reticulum, resulting in release of stored pools of internal calcium and initiating a muscle contraction. Following such a muscle contraction, the ryanodine receptor channels close allowing calcium stores to refill in preparation for the next stimulated contraction.
Symptomology of affected insects can be described in the following manner:
· initial intoxication by ingestion or contact
· cessation of feeding within hours after intoxication

· lethargy, paralysis
· insect death

Table 3.2-1: Details of the active substances

Active substance	**Chlorantraniliprole**
Concentration (Unit: g/kg or g/L...)	200 g/L
Chemical group	diamides
Mode of action	ryanodine receptor modulators
Biological action	Chlorantraniliprole controls insects through unregulated activation of ryanodine receptor channels leading to internal calcium store depletion that impairs regulation of muscle contraction. Insects exposed to Chlorantraniliprole exhibit general lethargy and muscle paralysis followed ultimately by death. The process of insect muscle contraction involves modulation of two distinct calcium channels, voltage-gated calcium channels that regulate external calcium entry, and ryanodine receptor channels, which regulate release of internal calcium stores from the sarcoplasmic reticulum. Under normal physiological conditions, input from the nervous system activates voltage-gated calcium channels leading to a rise in intracellular calcium. This rise triggers activation of ryanodine receptor channels located on the sarcoplasmic reticulum, resulting in release of stored pools of internal calcium and initiating a muscle contraction. Following such a muscle contraction, the ryanodine receptor channels close allowing calcium stores to refill in preparation for the next stimulated contraction.

Description of the plant protection product

CLOROL 200 SC containing chlorantraniliprole as the active substance is prepared for the use in agricultural practice as an insecticide in the form SC – Suspension concentrate.

Marketing name:
product submitted to registration under two different marketing names: Catanga 200 SC, Boland 200 SC

CLOROL 200 SC applies in the Central Registration Zone for the registration of in:

- Maize at spring applied once per season BBCH 53-69 at the maximum dose 0.125 L/ha which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Ostrinia nubilalis*
- Potato at spring applied twice per season BBCH 31-60 at the maximum dose 0.05-0.0625 L/ha per application which are corresponding to 10-12.5 g a.s./ha of chlorantraniliprole per application for the control of *Leptinotarsa decemlineata*
- Apple at spring applied twice per season BBCH 56 and BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Tortricidae*
- Apple at spring applied twice per season BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Cydia pomonella*
- Winter oilseed rape at spring applied once per season BBCH 61-71 at the maximum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*

Information on the composition of product CLOROL 200 SC are included in the confidential part of the registration dossier: Registration Report – Part C.

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)				
maize	*Ostrinia nubilalis*	PL	-	0.125 L/ha	-
potato	*Leptinotarsa decemlineata*	PL	-	0.05-0.0625 L/ha	-
apple	*Tortricidae, Cydia pomonella*	PL	-	0.125-0.175 L/ha	-
winter oilseed rape	*Ceutorhynchus assimilis, Dasyneura brassicae*	PL	-	0.175 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.

EPPO code	Scientific name	Common name*
PYRUNU	*Ostrinia nubilalis*	European maize borer
LPTNDE	*Leptinotarsa decemlineata*	Colorado beetle
1TORTF	*Tortricidae*	leafroller moths
CARPPO	*Cydia pomonella*	codling moth
CEUPTL	*Ceutorhynchus assimilis*	cabbage seed weevil
DASYBR	*Dasyneura brassicae*	brassica pod midge

* optional

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

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	major	minor		major	minor
maize	PL	-	*Ostrinia nubilalis*	X	
potato	PL	-	*Leptinotarsa decemlineata*	X	
apple	PL	-	*Tortricidae*	X	
			Cydia pomonella	X	
winter oilseed rape	PL	-	*Ceutorhynchus assimilis*	X	
			Dasyneura brassicae	X	

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 47 efficacy trials have been carried out in 2023 and 2024 in Poland within the Central registration zone to evaluate the efficacy of applied at the proposed label rate

- Maize at spring applied once per season BBCH 53-69 at the maximum dose 0.125 L/ha which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Ostrinia nubilalis*
- Potato at spring applied twice per season BBCH 31-60 at the maximum dose 0.05-0.0625 L/ha per application which are corresponding to 10-12.5 g a.s./ha of chlorantraniliprole per application for the control of *Leptinotarsa decemlineata*
- Apple at spring applied twice per season BBCH 56 and BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Tortricidae*
- Apple at spring applied twice per season BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Cydia pomonella*
- Winter oilseed rape at spring applied once per season BBCH 61-71 at the maximum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*

Trials were conducted in the North-East EPPO zone in Poland.

Table 3.2-5: Presentation of trials (efficacy trials, preliminary trials...)

Maize

Crop*	Target(s)*	Country	Years	Type of trial**	Number of trials(number of valid trials) North-East EPPO zone	GEP, non-GEP, official***	Comments (any other relevant information)
Maize	*Ostrinia nubilalis*	Poland	2023	E	6(6)	GEP	-
	TOTAL	-	2023	-	6(6)	-	-

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence vs post-emergence, spring vs autumn).
** P = preliminary trial, MED = minimum effective dose, E = efficacy trial.
*** GEP: Good Experimental Practices. Official: carried out by a national official organisation.

Potato

Crop*	Target(s)*	Country	Years	Type of trial**	Number of trials(number of valid trials) North-East EPPO zone	GEP, non-GEP, official***	Comments (any other relevant information)
Potato	*Leptinotarsa decemlineata*	Poland	2023	E	6(6)	GEP	-
	TOTAL	-	2023	-	6(6)	-	-

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence vs post-emergence, spring vs autumn).
** P = preliminary trial, MED = minimum effective dose, E = efficacy trial.
*** GEP: Good Experimental Practices. Official: carried out by a national official organisation.

Apple

Crop*	Target(s)*	Country	Years	Type of trial**	Number of trials(number of valid trials) North-East EPPO zone	GEP, non-GEP, official***	Comments (any other relevant information)
apple	*Tortricidae*	Poland	2024	E	14(14)	GEP	-

	Cydia pomonella	Poland	2024	E	7(7)	GEP	-
	TOTAL	-	2024	-	21(21)	-	-

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence vs post-emergence, spring vs autumn).
** P = preliminary trial, MED = minimum effective dose, E = efficacy trial.
*** GEP: Good Experimental Practices. Official: carried out by a national official organisation.

Winter oilseed rape – one application

Crop*	Target(s)*	Country	Years	Type of trial**	Number of trials(number of valid trials) North-East EPPO zone	GEP, non-GEP, official***	Comments (any other relevant information)
Winter oilseed rape	*Ceutorhynchus assimilis*	Poland	2023	E	2(2)	GEP	-
		Poland	2024	E	6(6)	GEP	-
		Poland	2023	E	8(8)	GEP	-
	Dasyneura brassicae	Poland	2023	E	2(2)	GEP	-
		Poland	2024	E	6(6)	GEP	-
		Poland	2023	E	8(8)	GEP	-
	TOTAL	-	2023	-	16(14)	-	-

* According to the GAP table. Timing of the application(s) can be added if relevant (e.g. Pre-mergence vs post-emergence, spring vs autumn).
** P = preliminary trial, MED = minimum effective dose, E = efficacy trial.
*** GEP: Good Experimental Practices. Official: carried out by a national official organisation.

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

Crop(s)	Reference standard	Country(ies) where the product is registered (1)	Authorization number	Active substance(s)	Formulation		Registered application	Application	Remark(4)
					Type(2)	Concentration of a.s.	rate(3)	rate in trials (per treatment)	
maize	Coragen 200 SC	Poland	R-598/2020d	chlorantraniliprole	SC - Suspension concentrate	200 g/L	0.125 L/ha	0.125 L/ha	-
potato	Coragen 200 SC	Poland	R-598/2020d	chlorantraniliprole	SC - Suspension concentrate	200 g/L	0.05-0.0625 L/ha	0.05-0.0625 L/ha	-
apple	Coragen 200 SC	Poland	R-598/2020d	chlorantraniliprole	SC - Suspension concentrate	200 g/L	0.125-0.175 L/ha	0.125-0.175 L/ha	-
Winter oilseed rape	Carnadine 200 SC	Poland	R-22/2022o	acetamiprid	SC - Suspension concentrate	200 g/L	0.250 L/ha	0.250 L/ha	-

(1) only on use(s) applied for (with the test product).
(2) e.g. WP (wettable 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 CLOROL 200 SC were not carried out because this insecticide contains chlorantraniliprole which is a well-known active substance that has been used for many years in agricultural practice.
According to EPPO PP1/225(2) lower doses have been tested in the efficacy studies, therefore no specific studies were conducted to fill this data point.

Summary and conclusions on the preliminary trials

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

Comments of zRMS:	Preliminary tests are not reported. The active substance chlorantraniliprole has well been known and used in many authorised products with a known range of action.

3.2.2 Minimum effective dose tests (KCP 6.2)

No specific studies were conducted to fill this data point.
According to EPPO PP1/225(2) lower doses have been tested in the efficacy studies, therefore the minimum effective trials were not conducted.

Maize

According to the document Biological Assessment Dossier DuPont-39450 CEU, Revision No. 1. no specific minimum effective dose trials were conducted, the data included in this section were taken from efficacy trials.
According to the document Registration Report Part B Section 7 Efficacy Data and Information six field trials were carried out in Poland between 2014 and 2015 to determine the effectiveness of Chlorantraniliprole 200 g/L SC against *Ostrinia nubilalis* on maize.
All trials were carried out in compliance with EPPO guideline: No. PP 1/13(3) (Guideline for *Ostrinia nubilalis*). Treatments were applied at a range of growth stages between BBCH 53 and 69.
On the basis of submitted trials it is possible to state that product Coragen 200 SC at the rate of 125 mL/ha, effectively controls the *Ostrinia nubilalis* in maize. The average efficacy of Coragen 200 SC amounted to 96,9% (on the basis of number of larvae/cob) and 100% (on the basis of number of penetrations per 100 cobs).

The average efficacy of Coragen 200 SC against *Ostrinia nubilalis*										
Treatment	**Rate**		**No of trials**	**% of efficacy on the basis of:**						
				***number of larvae/cob**			**number of penetrations/100 cob****			
	gA/ha	**mL. g/ha**		**Mean**	**Max**	**Min**	**Mean**	**Max**	**Min**
Coragen 200 SC	**25**	**125**	**6**	**96.9**	**93.9**	**100.0**	**100.0**	**100.0**	**100.0**
Coragen 200 SC	**30**	**150**	**6**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**

Karate Zeon 050 CS	11.25	150	6	61.2	55.4	76.5	87.2	81.0	92.0
Avaunt 150 EC	37.5	250	6	78.9	73.9	84.0	86.5	85.0	89.0
Steward 30 WG	45	125	6	95.7	90.0	98.1	97.5	92.0	100.0
Untreated	-	-	6	13.5*	8.25*	15.75*	15.75**	7.0**	47.0**

Potato

According to the evaluation document of the product Coragen 200 SC prepared by IOR-PIB Poznań all carried out trials show that the registered dose 10-12 g a.s./ha (50-60 mL formulated product per hectare) effectively controls the Colorado potato beetle. The minimum effective dose is 50 mL, but to increase efficacy against potato beetle larvae and beetles, a higher dose in the range is recommended.

Apple

According to the evaluation document of the product Coragen 200 SC prepared by IOR-PIB Poznań all carried out trials show that the registered dose 25-35 g a.s./ha (125-175 mL formulated product per hectare) maximum twice per season (interval 14 days) effectively controls the *Cydia pomonella* and *Tortricidae*. The minimum effective dose is 125 mL, but to increase efficacy against controlled pest, a higher dose in the range is recommended.

Winter oilseed rape – one application

14 field trials were established in order to determine the minimum effective dose for the control of the insects in winter oilseed rape. CLOROL 200 SC was tested at spring applied once per season BBCH 61-71 at the maximum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*
The rates reflect the proposed label rate of CLOROL 200 SC, in accordance with the EPPO standard PP 1/225 '*Minimum effective dose'*.
A summary of the dose response results is provided in Table 3.2-9a.

Table 3.2-9a: Minimum effective dose. Efficacy of CLOROL 200 SC at proposed label rate, 0.175 L/ha against insects in winter oilseed rape – one application

Target	Grouping*	Number of trials	Infestation in the untreated control (unit)			% control																		No of trials where CLOROL 200 SC (0.125 L/ha) is >, <, = compared to Carnadine 200 SC (0.250 L/ha)**	No of trials where CLOROL 200 SC (0.175 L/ha) is >, <, = compared to Carnadine 200 SC (0.250 L/ha)**
						CLOROL 200 SC at 0.075 L/ha			CLOROL 200 SC at 0.100 L/ha			CLOROL 200 SC at 0.125 L/ha			CLOROL 200 SC at 0.150 L/ha			CLOROL 200 SC at 0.175 L/ha			Carnadine 200 SC at rate 250 mL/ha				
			Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max			
insects	*Ceutorhynchus assimilis*	8	37.95	17.30	68.30	64.06	7.60	93.38	70.16	25.70	96.59	73.39	30.20	96.59	75.52	31.60	97.73	80.52	40.80	98.86	77.67	44.00	96.59	0 > 7 = 1 <	0 > 8 = 0 <
	Dasineura brassicae	8	38.23	13.00	86.80	59.78	4.30	94.10	68.36	24.60	96.50	70.88	28.20	97.60	74.83	37.80	98.80	80.64	47.50	100.00	88.75	78.80	97.60	0 > 5 = 3 <	2 > 4 = 2 <

Summary and conclusions on the minimum effective dose

According to the presented results, the proposed dose provided the optimum overall control and should be considered as effective against these major insects in maize, potato, apple and winter oilseed rape for which activity of product is claimed.

As a result, the proposed rate:

- Maize at spring applied once per season BBCH 53-69 at the minimum dose 0.125 L/ha which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Ostrinia nubilalis*
- Potato at spring applied twice per season BBCH 31-60 at the minimum dose 0.05 L/ha per application which are corresponding to 10 g a.s./ha of chlorantraniliprole per application for the control of *Leptinotarsa decemlineata*
- Apple at spring applied twice per season BBCH 56 and BBCH 71-87 at the minimum dose 0.125 L/ha per application which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Tortricidae*
- Apple at spring applied twice per season BBCH 71-87 at the minimum dose 0.125 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Cydia pomonella*
- Winter oilseed rape at spring applied once per season BBCH 61-71 at the minimum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*

for Poland should be considered the minimum effective dose to deliver broad spectrum control of targets under a wide range of environmental conditions.

dRR point 3.2.2	ZRMS conclusion
Minimum effective dose tests (use No. 3) The claimed dose rates are for winter oilseed rape 0,175 l/ha (one application) against CEUTPL and DASYBR. The dose justification of CLOROL 200 SC was supported by data from 14 efficacy trials on: winter oilseed rape against CEUTPL (8 trials) and against DASYBR (8 trials) for which efficacy of CLOROL 200 SC is claimed. Efficacy of the claimed dose was compared with the reduced doses: 0,075 l/ha; 0,1 l/ha; 0,125 l/ha; 0,150 l/ha; 0,175 l/ha. Trials were conducted in PL, between 2023 and 2024. CLOROL 200 SC at the dose rate of 0,175 l/ha performed more consistent and gave higher level of efficacy in comparison to reduced dose rates. The dose rate 0,175 l/ha may be considered the minimum dose. Minimum effective dose tests for use No. 1, 2, 4, 5 – application of art. 33 in relation to art. 34 of the Regulation was requested, therefore no minimum dose tests were submitted.	

3.2.3 Efficacy tests (KCP 6.2)

Materials and methods

The Applicant submitted 47 reports (in total) showing the results in research into product efficacy carried out in 2023 and 2024 in maize (6 trials), potato (6 trials), apple (21) and winter oilseed rape (14 trials). List of these reports is contained in Appendix 1.

Site

Trials were conducted in different regions in Poland where maize, potato, apple and winter oilseed rape is grown commercially. The experiment was established on a set of complete randomized blocks in 7 replications for maize and in 4 replications for potato, apple and winter oilseed rape. Details on trial sites, applications and data on effectiveness are included in Appendix 4 and 5.

Testing units
Efficacy and Selectivity studies on insecticide CLOROL 200 SC were performed in 2023 and 2024 by:
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland
- SynTech Research Poland Sp. z o.o., Jagiellonska 69/1 85-027 Bydgoszcz, Poland

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
- PP1/013(3) Ostrinia nubilalis
- PP1/012(4) Leptinotarsa decemlineata
- PP1/007(4)Cydia pomonella
- PP 1/11(3) Eupoecilia ambiguella and Lobesia botrana
- PP1/107(3) Ceutorhynchus assimilis
- PP1/220(1) Dasineura brassicae
- PP1/219(1) Ceutorhynchus napi and C. pallidactylus (quadridens) in oilseed rape

Assessment methods

Statistical Analysis
The test results were statistically evaluated using the ARM 2020.1 statistical program. All assessment data was analysed by analysis of variance (two-way analysis of variance). Significance of differences between the combinations was assessed using the Student-Newman-Keuls test at a significance level of p = 0.05 using "ARM 9" (version 9.1.5). All data were tested for homogeneity using the Bartlett test for homogeneity. for any data columns that did not pass this test, automatic data transformations were performed in the ARM (see ARM action codes below each scoreboard) Care should be taken when interpreting these data columns Efficacy was analysed by Abbott's test (% of control).

Assessment of efficacy
Maize
Assessment at BBCH 73-75: For the first assessment, 20 plants were selected in each plot (5 consecutive plants from 4 rows). Plants were cut directly above the soil level and stems were cut lengthwise). In such prepared plants, the number of larvae above the cob, below the cob and in the cob was counted. The number of damage on the plants caused by PYRUNU feeding was also counted.
Assessment immediately before harvest: During the second assessment, 20 plants were again selected in each plot (5 consecutive plants in 4 rows). From among the selected plants, the number of damaged plants, the number of plants with stem broken above and below the cob and the number of plants with broken/damaged cob were determined.

Potato
The number of *Leptinotarsa decemlineata* larvae and/or beetles was counted on 10 previously marked plants, randomly selected on each plot. The larval stages were divided into groups of larvae: L1, L2, L3 and L4 by looking at the pronotum of the larvae according to Appendix I to EPPO PP 1/12(4) The damage on the leaves was recorded as a percentage of the affected leaf area (average of the plants assessed).

Apple
The efficacy assessment was carried out based on the number of pests on the day of assessment compared

to the number before the treatment. Phytotoxicity assessments of the tested preparations were carried out by visual estimation of the severity of chlorosis, necrosis, leaf twisting, reduction of plant turgor etc. on the surface of whole plots and comparison of each plot with the control plot. The assessment was made directly at the plantation. The results are presented on a scale of 0-100, where 0 - no phytotoxicity, 100 - complete destruction of plants.

Winter oilseed rape
The number of *Ceutorhynchus assimilis* larvaes 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.

Assessment of phytotoxicity
The selectivity was assessed by a visual estimation of an intensity of chlorosis, necrosis, leave curling etc. found on overall areas of treated plots, with references to untreated plots. The results were described in percent destruction of insecticide-treated plants compared to untreated plants, where 0% means no phyto-toxicity and 100% means complete destruction of crops.

Applications methods and rates
The applications were carried out by a T-BOOM – BACCAI, BOSPHO

Tested insecticide was applied at spring in the growth stage:
- maize once per season at BBCH 53-69,
- potato once per season at BBCH 31-60,
- apple twice per season BBCH 56 and BBCH 71-87 or twice per season BBCH 71-87
- winter oilseed rape once per season at BBCH 61-71,

The product CLOROL 200 SC has been used:
- Maize at spring applied once per season BBCH 53-69 at the maximum dose 0.125 L/ha which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Ostrinia nubilalis*
- Potato at spring applied twice per season BBCH 31-60 at the maximum dose 0.05-0.0625 L/ha per application which are corresponding to 10-12.5 g a.s./ha of chlorantraniliprole per application for the control of *Leptinotarsa decemlineata*
- Apple at spring applied twice per season BBCH 56 and BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Tortricidae*
- Apple at spring applied twice per season BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Cydia pomonella*
- Winter oilseed rape at spring applied once per season BBCH 61-71 at the maximum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*

Coragen 200 SC was used as a reference product in maize, potato and apple.
The experiment was established on a set of complete randomized blocks in 7 replications for maize and in 4 replications for potato and apple.
Carnadine 200 SC was used as a reference product in winter oilseed rape.
The experiment was established on a set of complete randomized blocks in 4 replications.

Experiment pattern:

Maize

No.	Name	Rate (L/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	0.125	25	A	BBCH 53-69
3	Coragen 200 SC	0.125	25	A	BBCH 53-69

Potato

No.	Name	Rate (L/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	0.05	10	A; B	BBCH 31-60
3	Coragen 200 SC	0.05	10	A; B	BBCH 31-60
4	CLOROL 200 SC	0.0625	12.5	A; B	BBCH 31-60
5	Coragen 200 SC	0.0625	12.5	A; B	BBCH 31-60

Apple – *Tortricidae I*

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A; B	A: BBCH 56; B: 14 days after 1st app.
3	CLOROL 200 SC	100	20	A; B	A: BBCH 56; B: 14 days after 1st app.
4	CLOROL 200 SC	125	25	A; B	A: BBCH 56; B: 14 days after 1st app.
5	CLOROL 200 SC	150	30	A; B	A: BBCH 56; B: 14 days after 1st app.
6	CLOROL 200 SC	175	35	A; B	A: BBCH 56; B: 14 days after 1st app.
7	Coragen 200 SC	175	35	A; B	A: BBCH 56; B: 14 days after 1st app.

Apple – *Tortricidae II*

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A; B	BBCH 71-87
3	CLOROL 200 SC	100	20	A; B	BBCH 71-87
4	CLOROL 200 SC	125	25	A; B	BBCH 71-87
5	CLOROL 200 SC	150	30	A; B	BBCH 71-87
6	CLOROL 200 SC	175	35	A; B	BBCH 71-87
7	Coragen 200 SC	175	35	A; B	BBCH 71-87

Apple – *Cydia pomonella*

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A; B	BBCH 71-87

3	CLOROL 200 SC	100	20	A; B	BBCH 71-87
4	CLOROL 200 SC	125	25	A; B	BBCH 71-87
5	CLOROL 200 SC	150	30	A; B	BBCH 71-87
6	CLOROL 200 SC	175	35	A; B	BBCH 71-87
7	Coragen 200 SC	175	35	A; B	BBCH 71-87

Winter oilseed rape – one application

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A	BBCH 61-71
3	CLOROL 200 SC	100	20	A	BBCH 61-71
4	CLOROL 200 SC	125	25	A	BBCH 61-71
5	CLOROL 200 SC	150	30	A	BBCH 61-71
6	CLOROL 200 SC	175	35	A	BBCH 61-71
7	Carnadine 200 SL	250	50	A	BBCH 61-71

Details of experiments

Maize

Report code	**A.T/2023/029/KK**	**AI/23/K/28/Zł/01**	**AI/23/K/28/Mr/02**	**AI/23/K/28/Ma/03**	**AI/23/K/28/Jan/04**	**AI/23/K/28/Jbl/05**
Location	Grzebienisko/ Poland	Zotniki /Poland	Mrowino /Poland	Machary /Poland	Janowiec Wielkopolski /Poland	Jabłowo Pałuckie /Poland
Plant/cultivar	maize/ DKC 3939	maize/ FARM-FIRE	maize/ Garanto	maize/ LG31240	maize/ FAR-MODENA	maize/ Amavit
Seeding date	25.04.2023	24.04.2023	15.05.2023	28.04.2023	04.05.2023	16.05.2023
Seeding rate	73000 S/ha	75000 S/ha	75000 S/ha	75000 S/ha	75000 S/ha	75000 S/ha
Forecrop	maize	-	-	winter wheat	spring barley	maize
Type of sprayer	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BACCAI
Date of treatment	24.07.2023	21.07.2023	18.07.2023	21.07.2023	18.07.2023	03.08.2023
Plant development phase	BBCH 59-69	BBCH 62-63	BBCH 59-60	BBCH 59-61	BBCH 58-59	BBCH 67-69
Soil type	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam
pH	6.6	5.9	5.9	5.9	5.9	6.7
Water (L/ha)	300 L/ha	400 L/ha	400 L/ha	400 L/ha	400 L/ha	400 L/ha
Plot size	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2

Potato

Report code	A.T/2023/027/ZZ	A.T/2023/028/ZZ	AI/23/Z/28/ZI/01	AI/23/Z/28/Gr/02	AI/23/Z/28/Br/03	AI/23/Z/28/Pr/04
Location	Rakojady /Poland	Melano-wo/Poland	Złotnki/Poland	Gorzyń/Poland	Brody/Poland	Przybro-da/Poland
Plant /cultivar	potato/ Partner	potato/ Vineta	potato/ Vineta	potato/ Toscana	potato/ DENAR	potato/ Lord
Seeding date	28.04.2023	24.04.2023	20.04.2023	24.04.2023	24.04.2023	24.04.2023
Seeding rate	2000 kg/ha	2200 kg/ha	2200 kg/ha	2400 kg/ha	2300 kg/ha	2300 kg/ha
Forecrop	winter triticale	winter rye	winter rye	winter barley	spring barley	winter barley
Type of sprayer	BACCAI	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO
Date of treatment A	14.06.2023	15.06.2023	29.06.2023	26.06.2023	26.06.2023	10.06.2023
Date of treatment B	24.06.2023	26.06.2023	14.07.2023	06.07.2023	11.07.2023	20.06.2023
Plant deve-lopment phase A	BBCH 33-37	BBCH 33-37	BBCH 55-59	BBCH 66-67	BBCH 55-59	BBCH 51-55
Plant deve-lopment phase B	BBCH 39-51	BBCH 39-55	BBCH 73-74	BBCH 69-70	BBCH 75-79	BBCH 71-73
Soil type	loamy sand	loamy sand	sandy loam	sandy loam	sandy loam	sandy loam
pH	6.28	4.75	5.9	6.5	6.3	5.9
Water (L/ha) A; B	200 L/ha	300 L/ha	200 L/ha	200 L/ha	230 L/ha	200 L/ha
Plot size	2.5 x 10.0 = 25.0 m^2	2.5 x 10.0 = 25.0 m^2	3.0 x 10.0 = 30.0 m^2	2.8 x 10.0 = 28.0 m^2	2.5 x 12.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2

Apple I

Report code	EU-23-1072-01	EU-23-1072-02	EU-23-1072-03	EU-23-1072-04	EU-23-1073-01	EU-23-1073-02	EU-23-1073-03
Location	Ludwików / Poland	Nowy Żylin / Poland	Wysoki Kosciol / Poland	Bark / Poland	Ludwików / Poland	Nowy Żylin / Poland	Bedkowo / Poland
Plant /cultivar	apple / Ligol	apple / Gloster	apple / An-tonówka	apple / Cortland	apple / Jonagold	apple / Gala	apple / Starking
Seeding date	13.10.2018	22.10.2015	2017	2009	30.10.2017	28.10.2009	2018
Seeding rate	2548 P/ha	1470 P/ha	1644 P/ha	n/a	1429 P/ha	1904 P/ha	1488 P/ha
Forecrop	apple	apple	apple	apple	apple	apple	apple
Type of sprayer	ATOMIZ	ATOMIZ	ATOMIZ	KNAMOT	ATOMIZ	ATOMIZ	ATOMIZ
Date of tre-atment A	A: 10.08.2024	A: 10.08.2024	A: 10.05.2024	A: 10.06.2024	A: 15.04.2024	A: 15.04.2024	A: 18.04.2024
Date of tre-atment B	B: 24.08.2024	B: 24.08.2024	B: 24.05.2024	B: 24.06.2024	B: 29.04.2024	B: 29.04.2024	B: 30.04.2024
Plant deve-lopment phase A	A: BBCH 76-78	A: BBCH 75-77	A: BBCH 71-73	A: BBCH 72-73	A: BBCH 56-59	A: BBCH 53-56	A: BBCH 56-57
Plant deve-lopment phase B	B: BBCH 77-79	B: BBCH 77-79	B: BBCH 72-75	B: BBCH 73-74	B: BBCH 60	B: BBCH 56-59	B: BBCH 59-65
Soil type	loamy sand	sandy clay	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6,6	6.5	6.5	6.5	6.5	6.5	6.5

Water (L/ha) A; B	500	500	400	600	500	500	400
Plot size	3,6x11=39.6m^2	4x8,5=34m^2	3,8x8=30,4m^2	3,5x8=28m^2	4x8=32m^2	3,5x12=42m^2	4,2x8=33,6m^2

Apple II

Report code	**EU-23-1073-04**	**EU-23-1075-01**	**EU-23-1075-02**	**EU-23-1075-03**	**EU-23-1075-04**	**AI/24/Jbl/7/Pr/01**	**AI/24/Jbl/7/Pr/02**
Location	Żędowo / Poland	Ludwików / Poland	Nowy Żylin / Poland	Bark / Poland	Stefanówka / Poland	Przybroda / Poland	Przybroda / Poland
Plant /cultivar	apple / Gloster	apple / Golden Delicious	apple / Idared	apple / Cortland	apple / Elise	apple / Gala Must	apple / Ligol
Seeding date	2018	10.10.2016	24.10.2007	n/a	2018	18.04.2008	18.04.2008
Seeding rate	n/a	1905 P/ha	1250 P/ha	n/a	1250 P/ha	2083 P/ha	2083 P/ha
Forecrop	apple	apple	apple	apple	apple	apple	apple
Type of sprayer	BELSPR	ATOMIZ	ATOMIZ	KNAMOT	SPAIBL	BACCAI	BACCAI
Date of treatment A	A: 15.04.2024	A: 10.08.2024	A: 10.08.2024	A: 24.05.2024	A: 10.05.2024	A: 17.05.2024	A: 17.05.2024
Date of treatment B	Bl 29.04.2024	B: 24.08.2024	B: 24.08.2024	B: 10.06.2024	B: 24.05.2024	B: 05.06.2024	B: 04.06.2024
Plant development phase A	A: BBCH 56	A: BBCH 76-78	A: BBCH 75-77	A: BBCH 71-72	A: BBCH 71-72	A: BBCH 72	A: BBCH 72
Plant development phase B	B: BBCH 63-65	B: BBCH 77-79	B: BBCH 76-78	B: BBCH 72-74	B: BBCH 73-74	B: BBCH 74	B: BBCH 74
Soil type	Sandy loam	Loamy sand	Loamy sand	Loamy sand	Sandy loam	Loamy sand	Loamy sand
pH	6.8	6.5	6.5	6.5	6.5	6.9	6.9
Water (L/ha) A; B	700	500	500	600	600	500	500
Plot size	3x8=24m^2	3,5x11=38,5m^2	4x12=48m^2	4x9=36m^2	4x10=40m^2	4x4,8=19,2m^2	4x4,8=19,2m^2

Apple III

Report code	**AI/24/Jbl/7/Sz/03**	**AI/24/Jbl/7/Pr/04**	**AI/24/Jbl/7/Pr/05**	**I/24/Jbl/7/Sz/06**	**AI/24/Jbl/7/Pr/07**	**AI/24/Jbl/7/Pr/08**	**AI/24/Jbl/7/Sz/09**
Location	Szreniawa / Poland	Przybroda/ Poland	Przybroda/ Poland	Szreniawa / Poland	Przybroda/ Poland	Przybroda/ Poland	Szreniawa / Poland
Plant /cultivar	apple / Fuji	apple / Gala Must	apple / Ligol	apple / Fuji	apple / Szampion	apple / Topaz	apple / Idared
Seeding date	09.04.2014	18.04.2008	17.04.2008	09.04.2014	11.04.2006	10.04.2006	12.04.2014
Seeding rate	2857 P/ha	2083 P/ha	2083 P/ha	2857 P/ha	2083 P/ha	2083 P/ha	2857 P/ha
Forecrop	apple	apple	apple	apple	apple	apple	apple
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	A: 14.05.2024	A: 17.05.2024	A: 17.05.2024	A: 14.05.2024	A: 16.05.2024	A: 16.05.2024	A: 12.04.2024
Date of treatment B	B: 03.06.2024	B: 04.06.2024	B: 04.06.2024	B: 03.06.2024	B: 06.05.2024	B: 06.05.2024	B: 27.04.2024
Plant development phase A	A: BBCH 72	A: BBCH 72	A: BBCH 72	A: BBCH 72	A: BBCH 56	A: BBCH 56	A: BBCH 56

Plant development phase B	B: BBCH 74	B: BBCH 74	B: BBCH 74	B: BBCH 74	B: BBCH 67	B: BBCH 67	B: BBCH 67
Soil type	Sandy loam	Sandy loam	Loamy sand	Sandy loam	Loamy sand	Loamy sand	Sandy loam
pH	5.9	5.9	6.0	5.9	5.9	5.9	6.0
Water (L/ha) A; B	500	500	500	500	500	500	500
Plot size	3,5x4=14m^2	4x4,8=19,2m^2	4x4,8=19,2m^2	3,5x4=14m^2	4x4,8=19,2m^2	4x4,8=19,2m^2	3,5x4=14m^2

Winter oilseed rape – one application I

Report code	**AI/23/RO/28/Pr/01**	**AI/23/RO/28/Zl/02**	**A.T/2024/003/RZO**	**A.T/2024/004/RZO**	**A.T/2024/005/RZO**	**A.T/2024/006/RZO**	**A.T/2024/007/RZO**
Location	Przybroda/ Poland	Złotniki / Poland	Laskownica Mała / Poland	Lusówko / Poland	Lichnowy / Poland	Laskownica Mała / Poland	Lusówko / Poland
Plant/cultivar	winter oilseed rape/ Harry	winter oilseed rape/ Bradley	winter oilseed rape/ Kuga	winter oilseed rape/ Dron	winter oilseed rape/ Onca	winter oilseed rape/ Kuga	winter oilseed rape/ Dron
Seeding date	26.08.2022	25.08.2022	25.08.2023	28.08.2023	30.08.2023	25.08.2023	28.08.2023
Seeding rate	3.0 kg/ha	2.8 kg/ha	2.5 kg/ha	2.0 kg/ha	2.2 kg/ha	2.5 kg/ha	2.0 kg/ha
Forecrop	n/a	winter wheat	winter barley	winter wheat	winter wheat	winter barley	winter wheat
Type of sprayer	BOSPHO	BOSPHO	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment	08.05.2023	25.05.2023	26.04.2024	15.04.2024	29.04.2024	29.04.2024	24.04.2024
Plant development phase	BBCH 63-65	BBCH 65-69	BBCH 62-64	BBCH 62-64	BBCH 61-63	BBCH 64-67	BBCH 63-64
Soil type	loamy sand	loamy sand	loamy sand	sandy loam	sandy loam	loamy sand	sandy loam
pH	6.0	6.0	6.3	6.2	5.65	6.3	6.2
Water (L/ha)	200 L/ha	200 L/ha	200 L/ha	300 L/ha	200 L/ha	300 L/ha	200 L/ha
Plot size	2.0 x 12.0 = 24.0 m^2	2.0 x 10.0 = 20.0 m^2	5.0 m x 5.0 m = 25.0 m2	5.0 m x 6.0 m = 30.0 m2	5.0 m x 5.5 m = 27.5 m2	5.0 m x 5.0 m = 25.0 m2	5.0 m x 6.0 m = 30.0 m2

Winter oilseed rape – one application II

Report code	**A.T/2024/008/RZO**	**AI/24/RO/1/Pr/01**	**AI/24/RO/1/Zl/02**	**AI/24/RO/1/Br/03**	**AI/24/RO/1/Ma/04**	**AI/24/RO/1/JW/05**	**AI/24/RO/1/Da/06**
Location	Lichnowy / Poland	Przybroda / Poland	Suchy Las / Poland	Lwówek / Poland	Machary / Poland	Janowiec Wielkopolski / Poland	Dalekie / Poland
Plant/cultivar	winter oilseed rape/ Onca	winter oilseed rape/ Harry	winter oilseed rape/ Architect	winter oilseed rape/ Ambassador	winter oilseed rape/ Graf	winter oilseed rape/ Berny	winter oilseed rape/ Chrobry
Seeding date	30.08.2023	25.08.2023	25.08.2023	31.08.2023	09.09.2023	28.08.2023	28.08.2023
Seeding rate	2.2 kg/ha	3.0 kg/ha	3.0 kg/ha	3.6 kg/ha	3.0 kg/ha	2.9 kg/ha	2.9 kg/ha

Forecrop	winter wheat	winter barley	spring barley	winter wheat	winter wheat	winter wheat	spring wheat
Type of sprayer	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BOSPHO
Date of treatment	08.05.2024	07.05.2024	08.05.2024	29.04.2024	13.05.2024	06.05.2024	14.05.2024
Plant development phase	BBCH 65-67	BBCH 65-67	BBCH 67-69	BBCH 69-71	BBCH 69	BBCH 65-69	BBCH 69
Soil type	sandy loam	loamy sand	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam
pH	5.65	6	5.9	6.6	5.9	6	5.9
Water (L/ha)	200 L/ha	250 L/ha	250 L/ha	230 L/ha	250 L/ha	200 L/ha	200 L/ha
Plot size	5.0 m x 5.5 m = 27.5 m2	2.5 m x 10.0 m = 25.0 m2	2.5 m x 10.0 m = 25.0 m2	2.5 m x 9.0 m = 22.5 m2	3.0 m x 10.0 m = 30.0 m2	2.0 m x 12.5 m = 25.0 m2	2.5 m x 10.0 m = 25.0 m2

Details of agricultural measures, fertilization, and other plant protection products applied during the experiments are included in detailed field study reports listed above.
Summary of the data from effectiveness trials can be found at Appendix 5.

Table 3.2-10: Details on trial methodology

Guidelines	General guidelines	PP 1/152 (4) Design and analysis of efficacy evaluation trials
		PP 1/181 (4) Conduct and reporting of efficacy evaluation trials including good experimental practice
		PP 1/135 (4) Phytotoxicity assessment
		PP 1/225(2) Minimum effective dose
	Specific guidelines	PP1/013(3) Ostrinia nubilalis
		PP1/012(4) Leptinotarsa decemlineata
		PP1/107(3) Ceutorhynchus assimilis
		PP1/220(1) Dasineura brassicae
		PP1/219(1) Ceutorhynchus napi and C. pallidactylus (quadridens) in oilseed rape
Experimental design	Plot design	Randomized Complete Block (RCB) – (47)
	Plot size	Maize: 30 m^2 Potato: 25-30 m^2 Apple: 14-48 m^2 Winter oilseed rape: 20-30 m^2
	Number of replications	Maize 7 (6) Potato 4 (6) Apple 7 (21) Winter oilseed rape 4 (14)
Crop	Trials per crop	Maize 6 Potato 6 Apple 21 Winter oilseed rape 14
	Varieties per crop	Maize: DKC 3939, FARMFIRE, Garanto, LG31240, FARMODENA, Amavit Potato: Partner, Vineta, Toscana, DENAR, Lord Apple: Ligol, Gloster, Antonówka, Cortland, Jonagold, Gala, Starking, Golden Delicious, Idared, Elise, Gala Must, Szampion, Topaz Winter oilseed rape: Harry, Bradley, Kuga, Dron, Onca, Architect, Ambassador, Graf, Berny, Chrobry
	Sowing period	Maize: 24.04.2023-16.05.2023

		Potato: 20.04.2023-28.04.2023 Apple: 2006-2018 Winter oilseed rape: 25.08.2022-26.08.2022; 25.08.2023-09.09.2023
Application	Crop stage (BBCH)* at application	Maize: BBCH 53-69 Potato: BBCH 31-60 Winter oilseed rape – one application : BBCH 61-71
	Timing Pest stage at application (1)	The data available in Appendix 4
	Number of applications Intervals between applications	Maize: 1 (6 trials); interval – n/a Potato: 2 (6 trials); interval – n/a Apple: 2 (21 trials); interval – 14-20 days Winter oilseed rape – one application : 1 (14 trials); interval – n/a
	Spray volumes	Maize: 300-400 L/ha Potato: 200-300 L/ha Apple: 400-700 L/ha Winter oilseed rape: 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 …)	Maize: 5.9-6.7 Potato: 4.75-6.5 Apple: 5.9-6.9 Winter oilseed rape: 5.65-6.2
	e.g. Natural / artificial innoculation…	n/a
	e.g. Field / Greenhouse...	n/a
	...	n/a

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

3.2.3-1 Efficacy tests of CLOROL 200 SC

In accordance with Article 34 of the Regulation (EC) No 1107/2009 of the European Parliament and of the Council and the guidelines of the Ministry of Agriculture and Rural Development in Poland, 12 bridging studies were submitted for the insecticide CLOROL 200 SC registration in maize and potato and 21 studies were submitted for the insecticide CLOROL 200 SC registration in apple.

Maize

The 6 bridging trials were carried out in maize in 2023. The insecticide CLOROL 200 SC was applied once per season solo at the following rate of 0.125 L/ha at the growth stage BBCH 53-69.

3.2.3-1.1 *The efficacy of CLOROL 200 SC in control of PYRUNU*

The efficiency of CLOROL 200 SC used solo in control of *PYRUNU* was investigated in 6 trials. The tested product at the following rate of 0.125 L/ha controlled this species of insect at the high level of efficacy. The effectiveness fluctuated from 69.70% (62 DA-A) to 96.60% (42 DA-A).

The efficacy of the tested insecticide was slightly higher than the standard product. In the trial efficacy amounted above 76.32% for Coragen 200 SC during the assessment. (Appendix 5 tab. 1).

Potato

The 6 bridging trials were carried out in potato in 2023. The insecticide CLOROL 200 SC was applied twice per season solo at the following rate of 0.05 and 0.0625 L/ha at the growth stage BBCH 31-60.

3.2.3-1.2 *The efficacy of CLOROL 200 SC in control of LPTNDE*

Larva

The efficiency of CLOROL 200 SC used solo in control of *LPTNDE* was investigated in 6 trials. The tested product at the following rate of 0.05 and 0.0625 L/ha controlled this species of insect at the high level of efficacy. The effectiveness fluctuated at rate 0.05 L/ha from 74.10% (2 DA-B) to 100% (2 DA-B) and at rate 0.0625 L/ha from 91.60% (2 DA-B) to 100% (2 DA-B).

The efficacy of the tested insecticide was comparable to the standard product. In the trial efficacy amounted above 93.58-98.43% for Coragen 200 SC during the assessment. (Appendix 5 tab. 2).

Adult

The efficiency of CLOROL 200 SC used solo in control of *LPTNDE* was investigated in 5 trials. The tested product at the following rate of 0.05 and 0.0625 L/ha controlled this species of insect at the high level of efficacy. The effectiveness fluctuated at rate 0.05 L/ha from 63.60% (2 DA-B) to 91.70% (2 DA-B) and at rate 0.0625 L/ha from 76.90% (2 DA-B) to 100% (2 DA-B).

The efficacy of the tested insecticide was comparable to the standard product. In the trial efficacy amounted above 89.00-99.24% for Coragen 200 SC during the assessment (Appendix 5 tab. 3).

Apple

The 21 trials were carried out in apple in 2024. The insecticide CLOROL 200 SC was applied once per season solo at the following rates of 75, 100, 125, 150 and 175 mL/ha.

3.2.3-1.3 *The efficacy of CLOROL 200 SC in control of Cydia pomonella*

The efficiency of CLOROL 200 SC in control of *Cydia pomonella* was investigated in 7 trials. The tested product at the following rates of 75, 100, 125, 150 and 175 mL/ha controlled this insect at the high level of efficacy. The effectiveness fluctuated at rate 75 mL/ha from 21.00% (28 DA-A; 14 DA-B) to 83.30% (33 DA-A; 15 DA-A), at rate 100 mL/ha from 38.20% (33 DA-A; 15 DA-A) to 100% (28 DA-A; 14 DA-B), at rate 125 mL/ha from 44.10% (33 DA-A; 15 DA-A) to 100% (28 DA-A; 14 DA-B), at rate 150 mL/ha from 61.80% (33 DA-A; 15 DA-A) to 100% (28 DA-A; 14 DA-B) and at rate 175 mL/ha from 76.50% (33 DA-A; 15 DA-A) to 100% (28 DA-A; 14 DA-B).

The efficacy of the tested insecticide was comparable to the standard product. In the trial efficacy amounted above 86.27% for Coragen 200 SC during the assessment (Appendix 5 tab. 4)

3.2.3-1.4 *The efficacy of CLOROL 200 SC in control of Tortricidae*

***Tortricidae* (A: BBCH 56; B: 14 days after 1st app)**

The efficiency of CLOROL 200 SC in control of *Tortricidae* was investigated in 7 trials. The tested product at the following rates of 75, 100, 125, 150 and 175 mL/ha controlled this insect at the high level of efficacy. The effectiveness fluctuated at rate 75 mL/ha from 25.00% (59 DA-A; 45 DA-B) to 79.16% (42 DA-A; 28 DA-B), at rate 100 mL/ha from 50.00% (50 DA-A; 30 DA-B) to 100% (59 DA-A; 45 DA-B), at rate 125 mL/ha from 66.30% (42 DA-A; 30 DA-B) to 100% (59 DA-A; 45 DA-B), at rate 150 mL/ha from 57.80% (50 DA-A; 30 DA-B) to 100% (59 DA-A; 45 DA-B) and at rate 175 mL/ha from 59.40% (50 DA-A; 30 DA-B) to 100% (59 DA-A; 45 DA-B).

The efficacy of the tested insecticide was comparable to the standard product. In the trial efficacy amounted above 89.37% for Coragen 200 SC during the assessment (Appendix 5 tab. 5)

***Tortricidae* (BBCH 71-87)**

The efficiency of CLOROL 200 SC in control of *Tortricidae* was investigated in 7 trials. The tested product at the following rates of 75, 100, 125, 150 and 175 mL/ha controlled this insect at the high level of efficacy. The effectiveness fluctuated at rate 75 mL/ha from 22.00% (42 DA-A; 28 DA-B) to 65.40% (28 DA-A; 8 DA-B), at rate 100 mL/ha from 46.90% (33 DA-A; 15 DA-B) to 100% (42 DA-A; 28 DA-B), at rate 125 mL/ha from 37.50% (33 DA-A; 15 DA-B) to 100% (42 DA-A; 28 DA-B), at rate 150 mL/ha

from 53.10% (33 DA-A; 15 DA-B) to 100% (42 DA-A; 28 DA-B) and at rate 175 mL/ha from 34.40% (33 DA-A; 15 DA-B) to 100% (42 DA-A; 28 DA-B).

The efficacy of the tested insecticide was comparable to the standard product. In the trial efficacy amounted above 84.09% for Coragen 200 SC during the assessment (Appendix 5 tab. 6)

Winter oilseed rape – one application per season

The 14 trials were carried out in winter oilseed rape in 2023 and 2024. The insecticide CLOROL 200 SC was applied once per season solo at the following rates of 75, 100, 125, 150 and 175 mL/ha at the growth stage BBCH 61-71.

3.2.3-1.5 ***The efficacy of CLOROL 200 SC in control of CEUPTL***

The efficiency of CLOROL 200 SC in control of CEUPTL was investigated in 8 trials. The tested product at the following rates of 75, 100, 125, 150 and 175 mL/ha controlled this insect at the high level of efficacy. The effectiveness fluctuated at rate 75 mL/ha from 7.60% (2 DA-A) to 93.38% (43 DA-A), at rate 100 mL/ha from 25.70% (2 DA-A) to 96.59% (59 DA-A), at rate 125 mL/ha from 30.20% (2 DA-A) to 96.59% (59 DA-A), at rate 150 mL/ha from 31.60% (2 DA-A) to 97.73% (59 DA-A) and at rate 175 mL/ha from 40.80% (2 DA-A) to 98.86% (59 DA-A).

The efficacy of the tested insecticide was slightly higher than the standard product. In the trial efficacy amounted above 77.67% for Carnadine 200 SC during the assessment. (Appendix 5 tab. 7).

3.2.3-1.6 ***The efficacy of CLOROL 200 SC in control of DASYBR***

The efficiency of CLOROL 200 SC in control of *DASYBR* was investigated in 8 trials. The tested product at the following rates of 75, 100, 125, 150 and 175 mL/ha controlled this insect at the high level of efficacy. The effectiveness fluctuated at rate 75 mL/ha from 4.30% (16 DA-A) to 94.10% (59 DA-A), at rate 100 mL/ha from 24.60% (16 DA-A) to 96.50% (59 DA-A), at rate 125 mL/ha from 28.20% (16 DA-A) to 97.60% (59 DA-A), at rate 150 mL/ha from 37.80% (16 DA-A) to 98.80% (59 DA-A) and at rate 175 mL/ha from 47.50% (16 DA-A) to 100% (59 DA-A).

The efficacy of the tested insecticide was comparable to the standard product. In the trial efficacy amounted above 88.75% for Carnadine 200 SC during the assessment. (Appendix 5 tab. 8).

Table 3.2-11a: Efficacy of product at the timing of assessment – maize

Target	Grouping*	Number of trials	Infestation in the untreated control (unit)			% control						No of trials where CLOROL 200 SC (0.125 L/ha) is >, <, = compared to Coragen 200 SC (0.125 L/ha) **
						CLOROL 200 SC at 0.125 L/ha			Coragen 200 SC at 0.125 L/ha			
			Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		
insect	*Ostrinia nubilalis*	6	7.27	1.10	31.40	82.12	69.70	96.60	76.32	64.30	94.80	4 > 2 = 0 <

* 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").

** Optiona

Table 3.2-11b: Efficacy of product at the timing of assessment – potato

Target	Grouping*	Number of trials	Infestation in the untreated control (unit)			% control												No of trials where CLOROL 200 SC (0.05 L/ha) is >, <, = compared to Coragen 200 SC (0.05 L/ha)**	No of trials where CLOROL 200 SC (0.0625 L/ha) is >, <, = compared to Coragen 200 SC (0.0625 L/ha)**
						CLOROL 200 SC at 0.05 L/ha			Coragen 200 SC at 0.05 L/ha			CLOROL 200 SC at 0.0625 L/ha			Coragen 200 SC at 0.0625 L/ha				
			Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max			
insect	*Leptinotarsa decem-lineata - larva*	6	24.32	7.80	53.00	90.60	74.10	100.00	93.58	90.50	100.00	97.33	91.60	100.00	98.43	91.60	100.00	0 > 5 = 1 <	0 > 4 = 2 <
	Leptinotarsa decem-lineata - adult	5	5.78	2.80	13.30	77.98	63.60	91.70	89.00	72.70	100.00	91.70	76.90	100.00	99.24	96.20	100.00	0 > 1 = 4 <	0 > 2 = 3 <

* 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").

** Optiona

Table 3.2-11c: Efficacy of product at the timing of assessment – apple

Target	Grouping*	Number of trials	Infestation in the untreated control (unit)			% control																		No of trials where CLOROL 200 SC (0.125 L/ha) is >, <, = compared to Coragen 200 SC (0.175 L/ha)**	No of trials where CLOROL 200 SC (0.175 L/ha) is >, <, = compared to Coragen 200 SC (0.175 L/ha)**
						CLOROL 200 SC at 0.075 L/ha			CLOROL 200 SC at 0.100 L/ha			CLOROL 200 SC at 0.125 L/ha			CLOROL 200 SC at 0.150 L/ha			CLOROL 200 SC at 0.175 L/ha			Coragen 200 SC at rate 175 mL/ha				
			Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max			
insects	*Cydia pomonella*	7	8.0	1.5	22.0	44.23	21.00	83.30	70.71	38.20	100.00	71.06	44.10	100.00	82.23	61.80	100.00	90.49	76.50	100.00	86.27	55.90	100.00	0 > 3 = 4 <	2 > 5 = 0 <
	Tortricidae I	7	28.3	6.0	80.0	52.78	25.00	79.16	79.75	50.00	100.00	87.47	66.30	100.00	87.13	57.80	100.00	89.27	59.40	100.00	89.37	56.30	100.00	1 > 5 = 1 <	0 > 6 = 1 <
	Tortricidae II	7	12.9	5.0	28.3	43.75	22.00	65.40	82.05	46.90	100.00	79.42	37.50	100.00	83.23	53.10	100.00	83.21	34.40	100.00	84.09	46.90	100.00	0 > 5 = 2 <	1 > 5 = 1 <

* A, B, C can be a "trial group" (as defined in page 10, e.g. EPPO climatic zone A) or a specific target (e.g. weed A, weed B...). In order to adapt the table to the data presented, it is possible:
- to add lines or columns,
- to duplicate the table (e.g. one table for "trial group 1", one table for "trial group 2", one table for "all").

** Optiona

Table 3.2-11d: Efficacy of product at the timing of assessment – winter oilseed rape – one application

Target	Grouping*	Number of trials	Infestation in the untreated control (unit)			% control																		No of trials where CLOROL 200 SC (0.125 L/ha) is >, <, = compared to Carnadine 200 SC (0.250 L/ha)**	No of trials where CLOROL 200 SC (0.175 L/ha) is >, <, = compared to Carnadine 200 SC (0.250 L/ha)**
						CLOROL 200 SC at 0.075 L/ha			CLOROL 200 SC at 0.100 L/ha			CLOROL 200 SC at 0.125 L/ha			CLOROL 200 SC at 0.150 L/ha			CLOROL 200 SC at 0.175 L/ha			Carnadine 200 SC at rate 250 mL/ha				
			Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max			
insects	*Ceutorhynchus assimilis*	8	37.95	17.30	68.30	64.06	7.60	93.38	70.16	25.70	96.59	73.39	30.20	96.59	75.52	31.60	97.73	80.52	40.80	98.86	77.67	44.00	96.59	0 > 7 = 1 <	0 > 8 = 0 <

Target	Grouping*	Number of trials	Infestation in the untreated control (unit)			% control																		No of trials where CLOROL 200 SC (0.125 L/ha) is >, <, = compared to Carnadine 200 SC (0.250 L/ha)**	No of trials where CLOROL 200 SC (0.175 L/ha) is >, <, = compared to Carnadine 200 SC (0.250 L/ha)**
						CLOROL 200 SC at 0.075 L/ha			CLOROL 200 SC at 0.100 L/ha			CLOROL 200 SC at 0.125 L/ha			CLOROL 200 SC at 0.150 L/ha			CLOROL 200 SC at 0.175 L/ha			Carnadine 200 SC at rate 250 mL/ha				
			Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max			
	Dasineura brassicae	8	38.23	13.00	86.80	59.78	4.30	94.10	68.36	24.60	96.50	70.88	28.20	97.60	74.83	37.80	98.80	80.64	47.50	100.00	88.75	78.80	97.60	0 > 5 = 3 <	2 > 4 = 2 <

* 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").

** Optiona

Minor use

Not applicable

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

A summary of the yield data from efficacy trials is presented in Table 3.2-12.
A total of 47 trials were carried out in 2023 and 2024 in Poland. The objective was to confirm the yield response of CLOROL 200 SC in the presence of pest.

Table 3.2-12a: Yield (quality) effect of CLOROL 200SC in efficacy trials on maize

Grouping*	Number of trials	Untreated control Absolute figures (unit)			% yield relative to the untreated or absolute figures (unit)						No of trials where product is >, <, = compared to standard(s)**
					CLOROL 200 SC at 0.125 L/ha			Coragen 200 SC at 0.125 L/ha			
		Mean	Mean		Mean	Min & Max		Mean	Min & Max		
Yield t/ha	6	9.83	8.40	10.77	10.53	9.30	11.38	10.60	9.40	11.25	1 > 0 = 5 <
Moisture %	6	21.93	19.97	25.20	21.86	19.97	25.10	22.04	19.84	25.70	1 > 0 = 5 <
TKW g	6	297.76	262.06	338.13	297.07	254.15	331.13	296.66	257.37	329.91	3 > 0 = 3 <-

Grouping*	Number of trials	Untreated control Absolute figures (unit)			% yield relative to the untreated or absolute figures (unit)						No of trials where product is >, <, = compared to standard(s)**
					CLOROL 200 SC at 0.125 L/ha			Coragen 200 SC at 0.125 L/ha			
		Mean	Mean		Mean	Min & Max		Mean	Min & Max		
HLW kg/hL	6	71.22	64.43	74.10	71.52	64.35	75.30	71.33	64.40	74.30	4 > 0 = 2 <-

Table 3.2-12b: Yield (quality) effect of CLOROL 200SC in efficacy trials on potato

Grouping*	Number of trials	Untreated control Absolute figures (unit)			% yield relative to the untreated or absolute figures (unit)											No of trials where product is >, <, = compared to standard(s)**
					CLOROL 200 SC at 0.05 L/ha			Coragen 200 SC at 0.05 L/ha			CLOROL 200 SC at 0.0625 L/ha			Coragen 200 SC at 0.0625 L/ha		
		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max	
Yield t/ha	6	31.46	23.12	43.46	31.46	23.12	43.46	33.04	23.55	45.90	33.04	23.55	45.90	33.58	23.01	46.13	2 > 0 = 4 <
Starch content %	6	12.07	10.10	14.38	12.10	10.20	14.73	11.98	10.20	14.39	12.21	10.10	14.56	12.10	10.10	14.44	4 > 2 = 0 <

Table 3.2-12c: Yield (quality) effect of CLOROL 200SC in efficacy trials on apple

Grouping*	Number of trials	Untreated control Absolute figures (unit)			% yield relative to the untreated or absolute figures (unit)																		No of trials where product is >, <, = compared to standard(s)**
					CLOROL 200 SC at 0.075 L/ha			CLOROL 200 SC at 0.100 L/ha			CLOROL 200 SC at 0.125 L/ha			CLOROL 200 SC at 0.150 L/ha			CLOROL 200 SC at 0.175 L/ha			Coragen 200 SC at rate 175 mL/ha			
		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		
Yield t/ha	21	33.38	10.50	58.10	34.10	10.70	58.70	34.49	10.90	59.10	34.63	11.00	59.10	34.91	11.10	60.90	34.98	11.20	60.60	34.83	11.30	59.40	8 > 2 = 10 <

Table 3.2-12d: Yield (quality) effect of CLOROL 200SC in efficacy trials on winter oilseed rape

Grouping*	Number of trials	Untreated control Absolute figures (unit)			% yield relative to the untreated or absolute figures (unit)																		No of trials where product is >, <, = compared to standard(s)**
					CLOROL 200 SC at 0.075 L/ha			CLOROL 200 SC at 0.100 L/ha			CLOROL 200 SC at 0.125 L/ha			CLOROL 200 SC at 0.150 L/ha			CLOROL 200 SC at 0.175 L/ha			Carnadine 200 SC at rate 250 mL/ha			
		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		Mean	Min & Max		
Yield t/ha	14	2.99	1.45	4.90	3.16	1.48	4.98	3.17	1.57	4.93	3.22	1.60	5.08	3.25	1.51	4.94	3.24	1.56	5.00	3.24	1.54	4.95	7 > 4 = 3 <
Moisture %	14	6.84	2.08	10.33	7.23	4.88	10.60	7.16	4.93	10.75	7.01	4.90	10.20	7.15	4.90	10.60	7.22	4.88	10.75	7.16	4.90	10.73	7 > 3 = 4 <
TGW g	14	5.80	4.90	7.40	5.85	4.80	7.38	5.81	4.46	7.53	5.86	4.93	7.43	5.85	4.84	7.48	5.89	4.88	7.50	5.80	4.66	7.40	12 > 0 = 2 <
HLW kg/hL	14	62.78	55.90	67.73	63.17	55.88	67.75	59.67	6.73	67.70	63.54	56.48	67.68	63.69	56.30	67.83	63.23	56.08	67.65	63.22	56.33	67.60	7 > 0 = 7 <
Oil content %	14	42.28	38.10	45.80	42.41	38.40	45.95	42.69	38.50	45.53	42.41	38.30	45.85	42.35	38.50	45.75	42.46	38.40	45.78	42.63	38.30	46.38	5 > 0 = 9 <

Summary and conclusion

The formulation of CLOROL 200 SC is suspension concentrate (SC) and it comprises active substance chlorantraniliprole 200 g/L. The Applicant submitted 47 reports in total showing the results in research into product efficacy carried out in 2023 and 2024 in maize, potato, apple and winter oilseed rape.

The obtained data in performed trials show that CLOROL 200 SC provides benefits against the most important insects in maize, potato, apple and winter oilseed rape as shown in the tables below.
E - at least 80 % - effectively protect
M - 60 % - 80% - medium effectively protect
L - less than or 40 % - 60 % - limiting the number of pest

Maize

Product code	EPPO code	Scientific name	Average	Efficacy
CLOROL 200 SC 0.125 L/ha	PYRUNU	*Ostrinia nubilalis*	82.12	**E**
Coragen 200 SC 0.125 L/ha	PYRUNU	*Ostrinia nubilalis*	76.32	**M**

Potato

Product code	EPPO code	Scientific name	Average	Efficacy
CLOROL 200 SC 50 ml/ha	LPTNDE	*Leptinotarsa decemlineata - larva*	90.60	**E**
Coragen 200 SC 50 ml/ha	LPTNDE	*Leptinotarsa decemlineata - larva*	93.58	**E**
CLOROL 200 SC 62.5 ml/ha	LPTNDE	*Leptinotarsa decemlineata - larva*	97.33	**E**
Coragen 200 SC 62.5 ml/ha	LPTNDE	*Leptinotarsa decemlineata - larva*	98.43	**E**
Product code	**EPPO code**	**Scientific name**	**Average**	**Efficacy**
CLOROL 200 SC 50 ml/ha	LPTNDE	*Leptinotarsa decemlineata - adult*	77.98	**ME**
Coragen 200 SC 50 ml/ha	LPTNDE	*Leptinotarsa decemlineata - adult*	89.00	**E**
CLOROL 200 SC 62.5 ml/ha	LPTNDE	*Leptinotarsa decemlineata - adult*	91.70	**E**
Coragen 200 SC 62.5 ml/ha	LPTNDE	*Leptinotarsa decemlineata - adult*	99.24	**E**

Apple

Product code	EPPO code	Scientific name	Average	Efficacy
CLOROL 200 SC 75 mL/ha	CARPPO	*Cydia pomonella*	44.23	**L**
CLOROL 200 SC 100 mL/ha	CARPPO	*Cydia pomonella*	70.71	**M**
CLOROL 200 SC 125 mL/ha	CARPPO	*Cydia pomonella*	71.06	**M**
CLOROL 200 SC 150 mL/ha	CARPPO	*Cydia pomonella*	82.23	**E**
CLOROL 200 SC 175 mL/ha	CARPPO	*Cydia pomonella*	90.49	**E**
Coragen 200 SC 175 mL/ha	CARPPO	*Cydia pomonella*	86.27	**E**
Product code	**EPPO code**	**Scientific name**	**Average**	**Efficacy**
CLOROL 200 SC 75 mL/ha	1TORTF	*Tortricidae I*	52.78	**L**

CLOROL 200 SC 100 mL/ha	1TORTF	*Tortricidae I*	79.75	**M**
CLOROL 200 SC 125 mL/ha	1TORTF	*Tortricidae I*	87.47	**E**
CLOROL 200 SC 150 mL/ha	1TORTF	*Tortricidae I*	87.13	**E**
CLOROL 200 SC 175 mL/ha	1TORTF	*Tortricidae I*	89.27	**E**
Coragen 200 SC 175 mL/ha	1TORTF	*Tortricidae I*	89.37	**E**
Product code	**EPPO code**	**Scientific name**	**Average**	**Efficacy**
CLOROL 200 SC 75 mL/ha	1TORTF	*Tortricidae II*	43.75	**L**
CLOROL 200 SC 100 mL/ha	1TORTF	*Tortricidae II*	82.05	**E**
CLOROL 200 SC 125 mL/ha	1TORTF	*Tortricidae II*	79.42	**M**
CLOROL 200 SC 150 mL/ha	1TORTF	*Tortricidae II*	83.23	**E**
CLOROL 200 SC 175 mL/ha	1TORTF	*Tortricidae II*	83.21	**E**
Coragen 200 SC 175 mL/ha	1TORTF	*Tortricidae II*	84.09	**E**

Winter oilseed rape

Product code	**EPPO code**	**Scientific name**	**Average**	**Efficacy**
CLOROL 200 SC 75 ml/ha	CEUPTL	*Ceutorhynchus assimilis*	64.06	**M**
CLOROL 200 SC 100 ml/ha	CEUPTL	*Ceutorhynchus assimilis*	70.16	**M**
CLOROL 200 SC 125 ml/ha	CEUPTL	*Ceutorhynchus assimilis*	73.39	**M**
CLOROL 200 SC 150 ml/ha	CEUPTL	*Ceutorhynchus assimilis*	75.52	**M**
CLOROL 200 SC 175 ml/ha	CEUPTL	*Ceutorhynchus assimilis*	80.52	**E**
Carnadine 200 SC 250 ml/ha	CEUPTL	*Ceutorhynchus assimilis*	77.67	**M**
Product code	**EPPO code**	**Scientific name**	**Average**	**Efficacy**
CLOROL 200 SC 75 ml/ha	DASYBR	*Dasineura brassicae*	59.78	**L**
CLOROL 200 SC 100 ml/ha	DASYBR	*Dasineura brassicae*	68.36	**M**
CLOROL 200 SC 125 ml/ha	DASYBR	*Dasineura brassicae*	70.88	**M**
CLOROL 200 SC 150 ml/ha	DASYBR	*Dasineura brassicae*	74.83	**M**
CLOROL 200 SC 175 ml/ha	DASYBR	*Dasineura brassicae*	80.64	**E**
Carnadine 200 SC 250 ml/ha	DASYBR	*Dasineura brassicae*	88.75	**E**

According to the above, the plant protection product CLOROL 200 SC can be approved to the market and use in Poland according to proposed range of use – GAP

dRR point 3.2.3	ZRMS conclusion

To support authorization of the product CLOROL 200 SC considering **Art. 34** of the Regulation 1107/2009, the applicant submitted:

- 6 bridging trials carried out in maize (at BBCH 58-69) in 2023, in couple regions of Poland against PYRUNU; spray volume used in trials – 300 – 400 l/ha;
- 6 bridging trials carried out in potato (at BBCH 33-79) in 2023, in couple regions of Poland against LPTNDE; spray volume used in trials – 200 – 300 l/ha;
- 14 bridging trials carried out in apple against TORTF and 7 bridging trials carried out in apple against CARPPO in 2024 (at BBCH 53-79), in couple regions of Poland; spray volume used in trials – 400 – 700 l/ha.

The applicant refers to the unprotected data of the reference product Coragen 200 SC.

What is more, the applicant submitted also 14 efficacy trials to authorise (**Art. 33** of the Regulation 1107/2009) the product applied one time in season, at the dose rate 0,175 l/ha, in protection of winter oilseed rape (BBCH 61-71, spray volume 200-300 l/ha) against:

- CEUTPL; 8 trials carried out in couple regions of Poland, in 2023-2024
- DASYBR; 8 trials carried out in couple regions of Poland, in 2023-2024

Carnadine 200 SC was used as the reference product in efficacy trials.
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 (3) Conduct and reporting of efficacy evaluation trials including good experimental practice.
2. PP 1/135 (3) Phytotoxicity assessment
3. PP 1/152 (3) Design and analysis of efficacy evaluation trials
4. PP 1/012(4) *Leptinotarsa decemlineata*
5. PP1/013(3) *Ostrinia nubilalis*
6. PP 1/107(3) *Ceutorhynchus assimilis*
7. PP1 /220(1) *Dasineura brassicae*
8. PP 1/6(3) *Adoxophyes orana*
9. PP 1/7(3) *Cydia pomonella*

Trials were of randomized block design with a minimum of four replicates.

The effectiveness of the product was describe according to the following scale:
≥ 80% – Effectively controlled **(E)**
60 – 80% – Medium effectively controlled **(ME)**
0 – 60% – Limiting the number of pest **(R)**

1. The efficacy of product in maize against PYRUNU was tested at 0,125 l/ha, applied one time. CLOROL 200 SC controlled PYRUNU (above a husk, below a husk, at a cob) at the same level as the reference product Coragen 200 SC. Both product controlled PYRUNU at mean level of about 80%. There were no statistical differences in any of the assessment results presented in 6 efficacy trials.
2. The efficacy of product in potato against LPTNDE (larvae- 6 trials, adult-5 trials) was tested at 0,05 l/ha and 0,0625 l/ha, applied two times. CLOROL 200 SC controlled LPTNDE (larvae, adult) at the same level as the reference product Coragen 200 SC. Larvae was controlled at mean level of about 90% by lower rate of both products and above 95% by higher rate of both product. However efficacy of CLOROL 200 SC is a little lower numerically for adult than the results presented for Coragen 200 SC, no statistical differ-

ences in any of the assessment results presented in 5 efficacy trials were observed. To conclude, efficacy comparability of both products can be considered. Adult was controlled at mean level of about 80% by lower rate of both products and above 90% by higher rate of both product.

3. The efficacy of product in apple against CARPPO was tested at 0,125 l/ha and 0,175 l/ha, applied two times. CLOROL 200 SC controlled CARPPO at the same level as the reference product Coragen 200 SC at higher dose.
   Efficacy of 0,125 l/ha of CLOROL 200 SC was lower (mean 69,8% 14 DAB and 62,8% 28 DAB - **ME**) than results for Coragen 200 SC at 0,175 l/ha (mean 80,6% 14 DAB and 75,0% 28 DAB). Statistically lower results for CLOROL 200 SC were observed in two trials. The applicant did not tested lower dose rate of Coragen 200 SC (0,125 l/ha), therefore it is unknown whether the lower dose of the reference product performs with lower efficacy against CARPPO. Taking into account above considerations, it is proposed to place on the Coragen 200 SC label information that the dose 0,125 l/ha can perform medium effectively.
   To conclude, efficacy comparability of both products at the dose 0,175 l/ha can be considered.
4. The efficacy of product in apple against TORTF (at BBCH 56 and at BBCH 71-87) was tested at 0,125 l/ha and 0,175 l/ha, applied two times. CLOROL 200 SC controlled TORTF at the same level as the reference product Coragen 200 SC (about 80% and above 80%). No statistical differences in any of the assessment results presented in 6 efficacy trials were observed (in one trial, one result at 0,125 l/ha for CLOROL 200 SC was statistical lower than the efficacy result of Coragen 200 SC at 0,175 l/ha). To conclude, efficacy comparability of both products can be considered.
5. In protection of winter oilseed rape against CEUTPL, CLOROL 200 SC performed efficiently (80,5%, **E**) at the dose rate 0,175 l/ha and a little better than the reference product.
   In protection of winter oilseed rape against DASYBR, CLOROL 200 SC performed efficiently (80,6%, **E**) at the dose rate 0,175 l/ha and a little worse than the reference product (88,8%). In two trials, where the pest infestation was very high, CLOROL 200 SC performed statistically lower (57% and 48%) than the reference product (accordingly 91% and 78,8%). It is proposed to place on the product label information that it is possible that product can limited pest at high pest pressure.

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

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

3.3.1. Mode of action

CLOROL 200 SC is an insecticide containing active substance chlorantraniliprole 200 g/L. Chlorantraniliprole belongs to the diamides chemical family. According to IRAC, chlorantraniliprole is a Group 28 insecticide ryanodine receptor modulators.

According to Chlorantraniliprole_DAR_03_Volume 3 B1-B4.pdf

Chlorantraniliprole is a insecticidal active substance belonging to the chemical class of diamides for the control of larvae as well as some adults insects Chlorantraniliprole provides insect control through activation of the ryanodine receptors of the target insect. This activation of the ryanodine receptor stimulates the release of calcium from the internal stores of smooth and striated muscle. The result is impaired muscle regulation, paralysis and ultimately insect death. The process of insect muscle contraction involves modulation of two distinct calcium channels, voltage-gated calcium channels that regulate external calcium entry, and ryanodine receptor channels, which regulate release of internal calcium stores from the sarco-

plasmic reticulum. Under normal physiological conditions, input from the nervous system activates voltage-gated calcium channels leading to a rise in intracellular calcium. This rise triggers activation of ryanodine receptor channels located on the sarcoplasmic reticulum, resulting in release of stored pools of internal calcium and initiating a muscle contraction. Following such a muscle contraction, the ryanodine receptor channels close allowing calcium stores to refill in preparation for the next stimulated contraction. Symptomology of affected insects can be described in the following manner:

· initial intoxication by ingestion or contact
· cessation of feeding within hours after intoxication
· lethargy, paralysis
· insect death

3.3.2. Mechanism of resistance

CLOROL 200 SC is an insecticide containing active substance chlorantraniliprole 200 g/L. Chlorantraniliprole belongs to the diamides chemical family. According to IRAC, chlorantraniliprole is a Group 28 insecticide ryanodine receptor modulators.
According IRAC Mechanism of resistance studies are ongoing. According to EPPO PP 1/213 (4) Resistance risk analysis Insect and mite pests have varying rates of reproduction, which have an impact on the possibility of developing resistance. In general, the greater the number of generations per cropping season, the greater the inherent capacity of that pest to develop resistance.

3.3.3. Evidence of resistance

CLOROL 200 SC is an insecticide containing active substance chlorantraniliprole 200 g/L. Chlorantraniliprole belongs to the diamides chemical family. According to IRAC, chlorantraniliprole is a Group 28 insecticide ryanodine receptor modulators. 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

Genus Species	Taxonomy (family-order)	Common Name(s)	Cases	Group
Adoxophyes honmai	*Tortricidae Lepidoptera*	smaller tea tortrix	2	AG
Chilo suppressalis	*Pyralidae Lepidoptera*	asiatic rice borer	93	AG
Cnaphalocrocis medinalis	*Pyralidae Lepidoptera*	rice leaffolder moth	12	AG
Drosophila melanogaster	*Drosophilidae Diptera*	common fruit fly	1	AG
Helicoverpa armigera	*Noctuidae Lepidoptera*	cotton bollworm	6	AG
Leucoptera coffeella	*Lyonetiidae Lepidoptera*	coffee leaf miner	8	AG
Musca domestica	*Muscidae Diptera*	house fly	2	MED
Plutella xylostella	*Plutellidae Lepidoptera*	diamond-back moth	72	AG
Spodoptera exigua	*Noctuidae Lepidoptera*	beet army worm, lesser army worm	75	AG
Spodoptera frugiperda	*Noctuidae Lepidoptera*	fall armyworm	17	AG
Spodoptera littoralis	*Noctuidae Lepidoptera*	egyptian cotton leafworm, army worm	2	AG
Spodoptera litura	*Noctuidae Lepidoptera*	mediterranean climbing cutworm	18	AG
Tuta absoluta	*Gelechiidae Lepidoptera*	tomato leafminer	4	AG

3.3.4. Cross-resistance

According to Insecticide Resistance Management Global Guidelines for IRAC Group 28 (Diamide) Insecticides:
Group 28 Insecticides have a unique mode of action and novel chemical structure types and thus, "target site cross resistance" is most-likely a lower risk than resistance resulting from enhanced enzymatic metabolism by individuals within the pest population. Such metabolic resistance mechanisms may confer "metabolic cross-resistance" to unique and novel insecticides such as those in Group 28.

3.3.5. Sensitivity data

The Applicant didn't conduct separately trials for sensitivity data, this data was evaluated in efficacy trials. The 47 field were established in order to determine the sensitivity of pests in the maize, potato, apple and winter oilseed rape. The CLOROL 200 SC was tested in maize, potato, apple and winter oilseed rape

for the control of major pests. Detailed studies on the weeds sensitivity are submitted and summarised in 3.2 Efficacy data (KCP 6.2).

3.3.6. Use pattern

Insecticide CLOROL 200 SC has demonstrated good crop tolerance to maize, potato, apple and winter oilseed rape. Therefore concluded that CLOROL 200 SC is safe usage at proposed rate and this support the label claim for the use in maize, potato, apple and winter oilseed rape.
Undesirable effects are not expected on succeeding crops, adjacent crop, part of plants used for propagating purposes and beneficial organisms.
Based on submitted data the following regulation on the label is proposed:

- Maize at spring applied once per season BBCH 53-69 at the maximum dose 0.125 L/ha which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Ostrinia nubilalis*
- Potato at spring applied twice per season BBCH 31-60 at the maximum dose 0.05-0.0625 L/ha per application which are corresponding to 10-12.5 g a.s./ha of chlorantraniliprole per application for the control of *Leptinotarsa decemlineata*
- Apple at spring applied twice per season BBCH 56 and BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Tortricidae*
- Apple at spring applied twice per season BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Cydia pomonella*
- Winter oilseed rape at spring applied once per season BBCH 61-71 at the maximum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*

To avoid resistance, products contain active substance with the same group shouldn't be used year after year on the same field.

3.3.7. Resistance risk assessment of unrestricted use pattern

CLOROL 200 SC is an insecticide containing active substance chlorantraniliprole 200 g/L. Chlorantraniliprole belongs to the diamides chemical family. According to IRAC, chlorantraniliprole is a Group 28 insecticide ryanodine receptor modulators.
The risk of resistance inherent in the plant protection product and the pest can be increased by certain conditions of use. This agronomic risk affects selection pressure on the development of resistance and is influenced by the particular characteristics of the crop, the geographic area in which the product is applied and the use pattern. The agronomic risk should be assessed on a case-by-case basis for each application taking into account the following factors:
• widely grown crop with short rotations;
• monocropping or continuous cropping;
• application techniques;
• other cultural practices (e.g. fertilizers, cultivation);
• need for high numbers of applications or long exposure to obtain control, because of the features of the crop environment;
• use of transgenic plants with genes expressing pesticidal activity;
• use of cultivars susceptible to the pest(s);
• geographic isolation of populations preventing the re-entry of sensitive forms;
• environmental conditions favouring more frequent generations or higher population densities of the pest e.g. in protected crops; a greater risk of resistance has been demonstrated where fungicides are used on protected crops (defined as a crop grown in a glasshouse or poly-tunnel) than on outdoor crops.
• exclusive reliance on a single active substance;

• lack of diversity of available control measures.

Many factors need to be taken into account when analysing agronomic risk. Product CLOROL 200 SC is an insecticide containing active substance chlorantraniliprole 200 g/L. According to the GAP table CLOROL 200 SC is applied in maize once per season, in potato and apple twice per season and in winter oilseed rape once per season so the product does not require multiple applications to achieve acceptable efficacy on the targeted diseases. The above factors do not show a high agronomic risk. Furthermore, by applying the principles of integrated pest management (e.g. crop rotation, sustainability fertilization, cultivation of varieties resistant to pests and pathogens, set action thresholds, PPP's rotation), the agronomic risk of pests resistance to the insecticide can be significantly reduced. Considering the above, the agronomic risk for all crops (maize, potato, apple and winter oilseed rape) is low.

Product CLOROL 200 SC cannot be applied without any limitations as a unrestricted use. To minimize the risk of practical resistance avoid use products contain active substance with the same group year after year on the same field. Insecticide programmes must deliver effective pests management. Apply CLOROL 200 SC product at effective rates and intervals according to manufacturers' recommendations. Use crop rotation and good field practice to avoid resistance on field. The number of applications of CLOROL 200 SC based product within a total pests management program must be limited whether applied solo or in mixtures with other insecticides.

3.3.8. Test methods

Not applicable

3.3.9. Acceptability of the resistance risk

CLOROL 200 SC is an insecticide containing active substance chlorantraniliprole 200 g/L. Chlorantraniliprole belongs to the diamides chemical family. According to IRAC, chlorantraniliprole is a Group 28 insecticide ryanodine receptor modulators.

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.

According to submitted efficacy data none of the tested insects showed high tolerance to the product CLOROL 200 SC.

In conclusion, in the applicant's opinion, this level of insects resistance risk should be considered to be acceptable.

3.3.10. Management strategy

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 chlorantraniliprole 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[1].

3.3.11. Implementation of the management strategy

The insecticide label provides all the necessary information for preventing insects resistance to insecticides.

3.3.12. Monitoring, reporting and reaction to changes in performance

Sensitivity monitoring, i.e. the continuing observation of field performance and/or evaluation of the sensitivity of target organisms, is imperative to the management of resistance. Monitoring before the commercial introduction of an active substance establishes the baseline sensitivity of the target organism. Thereafter, monitoring can be undertaken to check that management strategies are working and/or to investigate complaints from growers of an apparent loss of field performance. As part of a management strategy for products whose unmodified risk of resistance has been evaluated as being unacceptable, a programme should be designed before release of the product on to the market to monitor the continuing efficacy of the plant protection product on the target pest(s). This programme normally comprises observations of field performance, with reporting to the registration authority of significant changes in efficacy and, depending on the resistance risk and the availability of appropriate test methods, may also include testing of sensitivity by bioassay. The monitoring should be a continuous process, conducted in representative commercial crops with different cultural conditions and in areas of intensive use of the product. A sufficient number of populations should be sampled to be able to determine the distribution of practical resistance. The results of the monitoring should indicate whether the management strategies are effective, or whether resistance is developing and management strategies may need to be introduced or modified. The monitoring programme should also note any possible development of resistance in pests not targeted by the product. In particular, attention should be paid to pests with a known high risk of resistance. Regulatory authorities should be informed at an early stage about all cases of field failure known to be due to resistance.

Study Comments: 3.3 dRR point 3.3	**EN:** Strategy is acceptable.
EN: Evaluator conclusion: The active substance chlorantraniliprole belongs to the 28 main group - Ryanodine receptor modulators in accordance with IRAC classification. It aactivates muscle ryanodine receptors, leading to contraction and paralysis of pests. Ryanodine receptors mediate calcium release into the cytoplasm from intracellular stores. Twelve cases of chlorantraniliprole resistant strains of the pest have been found worldwide. In Europe, only resistant strains to the chlorantraniliprole *Tuta absoluta* have been found. According to the database www.pesticideresistance.org, none of the target pests included in this dossier are resistant to chlorantraniliprole. 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 which corresponds to the IRAC recommendations.	

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 (efficacy trials)

Crop*	Country	Type of trial**	Number of trials	Years	GEP, non-GEP, official***	Comments (any other relevant information)
			North-East Zone			
maize	Poland	Y + Q	6	2023	GEP	-

potato	Poland	Y + Q	6	2023	GEP	-
apple	Poland	Y + Q	21	2024	GEP	-
Winter oilseed rape	Poland	Y + Q	2	2023	GEP	-
	Poland	Y + Q	12	2024	GEP	-
TOTAL	-	-	**47**	-	-	-

* According to the GAP table
** S = selectivity trial, Y = trial with yield assessment, Q = trial with quality assessment, T = trial on the basis of the study of impact on transformation process (TP: Physical transformation, TF: transformation involving microbial fermentation), P = trial with assessment of impact on propagation
*** Official: carried out by a national official organisation

Table 3.4-2: Presentation of reference standards used in trials (selectivity trials, transformation trials...)

Crop	Reference standard	Country(ies) where the product is registered (1)	Authorization number	Active substance	Formulation		Registered application	Application	Remark(4)
					Type(2)	Concentration of a.s.	rate(3)	rate in trials (per treatment)	
maize	Coragen 200 SC	Poland	R-598/2020d	chlorantraniliprole	SC - Suspension concentrate	200 g/L	0.125 L/ha	0.125 L/ha	-
potato	Coragen 200 SC	Poland	R-598/2020d	chlorantraniliprole	SC - Suspension concentrate	200 g/L	0.05-0.0625 L/ha	0.05-0.0625 L/ha	-
Winter oilseed rape	Carnadine 200 SC	Poland	R-22/2022o	acetamiprid	SC - Suspension concentrate	200 g/L	0.250 L/ha	0.250 L/ha	-

(1) only on use(s) applied for (with the test product).
(2) e.g. WP (wettable 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.).

3.4.1. Phytotoxicity to host crop (KCP 6.4.1)

Materials and methods
The Applicant submitted 47 reports (in total) showing the results in research into product selectivity carried out in 2023 and 2024 in maize (6 trials), potato (6 trials), apple (21 trials) and winter oilseed rape (14 trials). List of these reports is contained in Appendix 1.

Site
Trials were conducted in different regions in Poland where maize, potato, apple and winter oilseed rape is grown commercially. The experiment was established on a set of complete randomized blocks in 7 replications for maize and in 4 replications for potato, apple and winter oilseed rape. Details on trial sites, applications and data on effectiveness are included in Appendix 4 and 5.

Testing units
Efficacy and Selectivity studies on insecticide CLOROL 200 SC were performed in 2023 and 2024 by:
- A.T Sp. z o.o., ul. Przemysłowa 3, 88-300 Mogilno, Poland
- Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland
- SynTech Research Poland Sp. z o.o., Jagiellonska 69/1 85-027 Bydgoszcz, Poland

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
- PP1/013(3) Ostrinia nubilalis
- PP1/012(4) Leptinotarsa decemlineata
- PP1/007(4)Cydia pomonella
- PP 1/11(3) Eupoecilia ambiguella and Lobesia botrana
- PP1/107(3) Ceutorhynchus assimilis
- PP1/220(1) Dasineura brassicae
- PP1/219(1) Ceutorhynchus napi and C. pallidactylus (quadridens) in oilseed rape

Assessment methods
Statistical Analysis
The test results were statistically evaluated using the ARM 2020.1 statistical program. All assessment data was analysed by analysis of variance (two-way analysis of variance). Significance of differences between the combinations was assessed using the Student-Newman-Keuls test at a significance level of p = 0.05 using "ARM 9" (version 9.1.5). All data were tested for homogeneity using the Bartlett test for homogeneity. for any data columns that did not pass this test, automatic data transformations were performed in the ARM (see ARM action codes below each scoreboard) Care should be taken when interpreting these data columns Efficacy was analysed by Abbott's test (% of control).

Assessment of phytotoxicity
The selectivity was assessed by a visual estimation of an intensity of chlorosis, necrosis, leave curling etc. found on overall areas of treated plots, with references to untreated plots. The results were described in percent destruction of insecticide-treated plants compared to untreated plants, where 0% means no phytotoxicity and 100% means complete destruction of crops.

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.
Tuber were harvested by hand from the two central rows from each plots. The samples for each plots were analyzed for starch content.

Applications methods and rates
The applications were carried out by a T-BOOM – BACCAI, BOSPHO.

Tested insecticide was applied at spring in the growth stage:
- maize once per season at BBCH 53-69,
- potato once per season at BBCH 31-60,
- winter oilseed rape once per season at BBCH 61-71.

The product CLOROL 200 SC has been used:
- Maize at spring applied once per season BBCH 53-69 at the maximum dose 0.125 L/ha which are corresponding to 25 g a.s./ha of chlorantraniliprole per application for the control of *Ostrinia nubilalis*
- Potato at spring applied twice per season BBCH 31-60 at the maximum dose 0.05-0.0625 L/ha per application which are corresponding to 10-12.5 g a.s./ha of chlorantraniliprole per application for the control of *Leptinotarsa decemlineata*
- Apple at spring applied twice per season BBCH 56 and BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Tortricidae*

- Apple at spring applied twice per season BBCH 71-87 at the maximum dose 0.125-0.175 L/ha per application which are corresponding to 25-35 g a.s./ha of chlorantraniliprole per application for the control of *Cydia pomonella*
- Winter oilseed rape at spring applied once per season BBCH 61-71 at the maximum dose 0.175 L/ha which are corresponding to 35 g a.s./ha of chlorantraniliprole per application for the control of *Ceutorhynchus assimilis* and *Dasyneura brassicae*

Coragen 200 SC was used as a reference product in maize, potato and apple.
The experiment was established on a set of complete randomized blocks in 7 replications for maize and in 4 replications for potato and apple.
Carnadine 200 SC was used as a reference product in winter oilseed rape.
The experiment was established on a set of complete randomized blocks in 4 replications.

Experiment pattern:

Maize

No.	Name	Rate (L/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	0.125	25	A	BBCH 53-69
3	Coragen 200 SC	0.125	25	A	BBCH 53-69

Potato

No.	Name	Rate (L/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	0.05	10	A; B	BBCH 31-60
3	Coragen 200 SC	0.05	10	A; B	BBCH 31-60
4	CLOROL 200 SC	0.0625	12.5	A; B	BBCH 31-60
5	Coragen 200 SC	0.0625	12.5	A; B	BBCH 31-60

Apple – *Tortricidae I*

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A; B	A: BBCH 56; B: 14 days after 1st app.
3	CLOROL 200 SC	100	20	A; B	A: BBCH 56; B: 14 days after 1st app.
4	CLOROL 200 SC	125	25	A; B	A: BBCH 56; B: 14 days after 1st app.
5	CLOROL 200 SC	150	30	A; B	A: BBCH 56; B: 14 days after 1st app.
6	CLOROL 200 SC	175	35	A; B	A: BBCH 56; B: 14 days after 1st app.
7	Coragen 200 SC	175	35	A; B	A: BBCH 56; B: 14 days after 1st app.

Apple – *Tortricidae II*

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A; B	BBCH 71-87
3	CLOROL 200 SC	100	20	A; B	BBCH 71-87
4	CLOROL 200 SC	125	25	A; B	BBCH 71-87

5	CLOROL 200 SC	150	30	A; B	BBCH 71-87
6	CLOROL 200 SC	175	35	A; B	BBCH 71-87
7	Coragen 200 SC	175	35	A; B	BBCH 71-87

Apple – *Cydia pomonella*

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A; B	BBCH 71-87
3	CLOROL 200 SC	100	20	A; B	BBCH 71-87
4	CLOROL 200 SC	125	25	A; B	BBCH 71-87
5	CLOROL 200 SC	150	30	A; B	BBCH 71-87
6	CLOROL 200 SC	175	35	A; B	BBCH 71-87
7	Coragen 200 SC	175	35	A; B	BBCH 71-87

Winter oilseed rape – one application

No.	Name	Rate (mL/ha)	Rate (g a.s./ha)	Appl code	Growth Stage BBCH
1	Untreated Check				
2	CLOROL 200 SC	75	15	A	BBCH 61-71
3	CLOROL 200 SC	100	20	A	BBCH 61-71
4	CLOROL 200 SC	125	25	A	BBCH 61-71
5	CLOROL 200 SC	150	30	A	BBCH 61-71
6	CLOROL 200 SC	175	35	A	BBCH 61-71
7	Carnadine 200 SL	250	50	A	BBCH 61-71

Details of experiments

Maize

Report code	**A.T/2023/029/KK**	**AI/23/K/28/Zl/01**	**AI/23/K/28/Mr/02**	**AI/23/K/28/Ma/03**	**AI/23/K/28/Jan/04**	**AI/23/K/28/Jbl/05**
Location	Grzebienisko/ Poland	Zotniki /Poland	Mrowino /Poland	Machary /Poland	Janowiec Wielkopolski /Poland	Jabłowo Pałuckie /Poland
Plant/cultivar	maize/ DKC 3939	maize/ FARM-FIRE	maize/ Garanto	maize/ LG31240	maize/ FAR-MODENA	maize/ Amavit
Seeding date	25.04.2023	24.04.2023	15.05.2023	28.04.2023	04.05.2023	16.05.2023
Seeding rate	73000 S/ha	75000 S/ha	75000 S/ha	75000 S/ha	75000 S/ha	75000 S/ha
Forecrop	maize	-	-	winter wheat	spring barley	maize
Type of sprayer	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BACCAI
Date of treatment	24.07.2023	21.07.2023	18.07.2023	21.07.2023	18.07.2023	03.08.2023
Plant development phase	BBCH 59-69	BBCH 62-63	BBCH 59-60	BBCH 59-61	BBCH 58-59	BBCH 67-69

Soil type	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam
pH	6.6	5.9	5.9	5.9	5.9	6.7
Water (L/ha)	300 L/ha	400 L/ha	400 L/ha	400 L/ha	400 L/ha	400 L/ha
Plot size	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2

Potato

Report code	**A.T/2023/027/ZZ**	**A.T/2023/028/ZZ**	**AI/23/Z/28/Zł/01**	**AI/23/Z/28/Gr/02**	**AI/23/Z/28/Br/03**	**AI/23/Z/28/Pr/04**
Location	Rakojady /Poland	Melano-wo/Poland	Złotnki/Poland	Gorzyń/Poland	Brody/Poland	Przybro-da/Poland
Plant /cultivar	potato/ Partner	potato/ Vineta	potato/ Vineta	potato/ Toscana	potato/ DENAR	potato/ Lord
Seeding date	28.04.2023	24.04.2023	20.04.2023	24.04.2023	24.04.2023	24.04.2023
Seeding rate	2000 kg/ha	2200 kg/ha	2200 kg/ha	2400 kg/ha	2300 kg/ha	2300 kg/ha
Forecrop	winter triticale	winter rye	winter rye	winter barley	spring barley	winter barley
Type of sprayer	BACCAI	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO
Date of treatment A	14.06.2023	15.06.2023	29.06.2023	26.06.2023	26.06.2023	10.06.2023
Date of treatment B	24.06.2023	26.06.2023	14.07.2023	06.07.2023	11.07.2023	20.06.2023
Plant deve-lopment phase A	BBCH 33-37	BBCH 33-37	BBCH 55-59	BBCH 66-67	BBCH 55-59	BBCH 51-55
Plant deve-lopment phase B	BBCH 39-51	BBCH 39-55	BBCH 73-74	BBCH 69-70	BBCH 75-79	BBCH 71-73
Soil type	loamy sand	loamy sand	sandy loam	sandy loam	sandy loam	sandy loam
pH	6.28	4.75	5.9	6.5	6.3	5.9
Water (L/ha) A; B	200 L/ha	300 L/ha	200 L/ha	200 L/ha	230 L/ha	200 L/ha
Plot size	2.5 x 10.0 = 25.0 m^2	2.5 x 10.0 = 25.0 m^2	3.0 x 10.0 = 30.0 m^2	2.8 x 10.0 = 28.0 m^2	2.5 x 12.0 = 30.0 m^2	3.0 x 10.0 = 30.0 m^2

Apple I

Report code	**EU-23-1072-01**	**EU-23-1072-02**	**EU-23-1072-03**	**EU-23-1072-04**	**EU-23-1073-01**	**EU-23-1073-02**	**EU-23-1073-03**
Location	Ludwików / Poland	Nowy Żylin / Poland	Wysoki Kosciol / Poland	Bark / Poland	Ludwików / Poland	Nowy Żylin / Poland	Bedkowo / Poland
Plant /cultivar	apple / Ligol	apple / Gloster	apple / An-tonówka	apple / Cortland	apple / Jonagold	apple / Gala	apple / Starking
Seeding date	13.10.2018	22.10.2015	2017	2009	30.10.2017	28.10.2009	2018
Seeding rate	2548 P/ha	1470 P/ha	1644 P/ha	n/a	1429 P/ha	1904 P/ha	1488 P/ha
Forecrop	apple	apple	apple	apple	apple	apple	apple
Type of sprayer	ATOMIZ	ATOMIZ	ATOMIZ	KNAMOT	ATOMIZ	ATOMIZ	ATOMIZ

Date of treatment A	A: 10.08.2024	A: 10.08.2024	A: 10.05.2024	A: 10.06.2024	A: 15.04.2024	A: 15.04.2024	A: 18.04.2024
Date of treatment B	B: 24.08.2024	B: 24.08.2024	B: 24.05.2024	B: 24.06.2024	B: 29.04.2024	B: 29.04.2024	B: 30.04.2024
Plant development phase A	A: BBCH 76-78	A: BBCH 75-77	A: BBCH 71-73	A: BBCH 72-73	A: BBCH 56-59	A: BBCH 53-56	A: BBCH 56-57
Plant development phase B	B: BBCH 77-79	B: BBCH 77-79	B: BBCH 72-75	B: BBCH 73-74	B: BBCH 60	B: BBCH 56-59	B: BBCH 59-65
Soil type	loamy sand	sandy clay	loamy sand	loamy sand	loamy sand	loamy sand	loamy sand
pH	6,6	6.5	6.5	6.5	6.5	6.5	6.5
Water (L/ha) A; B	500	500	400	600	500	500	400
Plot size	3,6x11=39.6m^2	4x8,5=34m^2	3,8x8=30,4m^2	3,5x8=28m^2	4x8=32m^2	3,5x12=42m^2	4,2x8=33,6m^2

Apple II

Report code	**EU-23-1073-04**	**EU-23-1075-01**	**EU-23-1075-02**	**EU-23-1075-03**	**EU-23-1075-04**	**AI/24/Jbl/7/Pr/01**	**AI/24/Jbl/7/Pr/02**
Location	Żędowo / Poland	Ludwików / Poland	Nowy Żylin / Poland	Bark / Poland	Stefanówka / Poland	Przybroda / Poland	Przybroda / Poland
Plant /cultivar	apple / Gloster	apple / Golden Delicious	apple / Idared	apple / Cortland	apple / Elise	apple / Gala Must	apple / Ligol
Seeding date	2018	10.10.2016	24.10.2007	n/a	2018	18.04.2008	18.04.2008
Seeding rate	n/a	1905 P/ha	1250 P/ha	n/a	1250 P/ha	2083 P/ha	2083 P/ha
Forecrop	apple	apple	apple	apple	apple	apple	apple
Type of sprayer	BELSPR	ATOMIZ	ATOMIZ	KNAMOT	SPAIBL	BACCAI	BACCAI
Date of treatment A	A: 15.04.2024	A: 10.08.2024	A: 10.08.2024	A: 24.05.2024	A: 10.05.2024	A: 17.05.2024	A: 17.05.2024
Date of treatment B	Bl 29.04.2024	B: 24.08.2024	B: 24.08.2024	B: 10.06.2024	B: 24.05.2024	B: 05.06.2024	B: 04.06.2024
Plant development phase A	A: BBCH 56	A: BBCH 76-78	A: BBCH 75-77	A: BBCH 71-72	A: BBCH 71-72	A: BBCH 72	A: BBCH 72
Plant development phase B	B: BBCH 63-65	B: BBCH 77-79	B: BBCH 76-78	B: BBCH 72-74	B: BBCH 73-74	B: BBCH 74	B: BBCH 74
Soil type	Sandy loam	Loamy sand	Loamy sand	Loamy sand	Sandy loam	Loamy sand	Loamy sand
pH	6.8	6.5	6.5	6.5	6.5	6.9	6.9
Water (L/ha) A; B	700	500	500	600	600	500	500
Plot size	3x8=24m^2	3,5x11=38,5m^2	4x12=48m^2	4x9=36m^2	4x10=40m^2	4x4,8=19,2m^2	4x4,8=19,2m^2

Apple III

Report code	**AI/24/Jbl/7/Sz/03**	**AI/24/Jbl/7/Pr/04**	**AI/24/Jbl/7/Pr/05**	**I/24/Jbl/7/Sz/06**	**AI/24/Jbl/7/Pr/07**	**AI/24/Jbl/7/Pr/08**	**AI/24/Jbl/7/Sz/09**
Location	Szreniawa / Poland	Przybroda/ Poland	Przybroda/ Poland	Szreniawa / Poland	Przybroda/ Poland	Przybroda/ Poland	Szreniawa / Poland
Plant /cultivar	apple / Fuji	apple / Gala Must	apple / Ligol	apple / Fuji	apple / Szampion	apple / Topaz	apple / Idared
Seeding date	09.04.2014	18.04.2008	17.04.2008	09.04.2014	11.04.2006	10.04.2006	12.04.2014

Seeding rate	2857 P/ha	2083 P/ha	2083 P/ha	2857 P/ha	2083 P/ha	2083 P/ha	2857 P/ha
Forecrop	apple	apple	apple	apple	apple	apple	apple
Type of sprayer	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment A	A: 14.05.2024	A: 17.05.2024	A: 17.05.2024	A: 14.05.2024	A: 16.05.2024	A: 16.05.2024	A: 12.04.2024
Date of treatment B	B: 03.06.2024	B: 04.06.2024	B: 04.06.2024	B: 03.06.2024	B: 06.05.2024	B: 06.05.2024	B: 27.04.2024
Plant development phase A	A: BBCH 72	A: BBCH 72	A: BBCH 72	A: BBCH 72	A: BBCH 56	A: BBCH 56	A: BBCH 56
Plant development phase B	B: BBCH 74	B: BBCH 74	B: BBCH 74	B: BBCH 74	B: BBCH 67	B: BBCH 67	B: BBCH 67
Soil type	Sandy loam	Sandy loam	Loamy sand	Sandy loam	Loamy sand	Loamy sand	Sandy loam
pH	5.9	5.9	6.0	5.9	5.9	5.9	6.0
Water (L/ha) A; B	500	500	500	500	500	500	500
Plot size	3,5x4=14m^2	4x4,8=19,2m^2	4x4,8=19,2m^2	3,5x4=14m^2	4x4,8=19,2m^2	4x4,8=19,2m^2	3,5x4=14m^2

Winter oilseed rape – one application I

Report code	**AI/23/RO/28/Pr/01**	**AI/23/RO/28/Zl/02**	**A.T/2024/003/RZO**	**A.T/2024/004/RZO**	**A.T/2024/005/RZO**	**A.T/2024/006/RZO**	**A.T/2024/007/RZO**
Location	Przybroda/ Poland	Złotniki / Poland	Laskownica Mała / Poland	Lusówko / Poland	Lichnowy / Poland	Laskownica Mała / Poland	Lusówko / Poland
Plant/cultivar	winter oilseed rape/ Harry	winter oilseed rape/ Bradley	winter oilseed rape/ Kuga	winter oilseed rape/ Dron	winter oilseed rape/ Onca	winter oilseed rape/ Kuga	winter oilseed rape/ Dron
Seeding date	26.08.2022	25.08.2022	25.08.2023	28.08.2023	30.08.2023	25.08.2023	28.08.2023
Seeding rate	3.0 kg/ha	2.8 kg/ha	2.5 kg/ha	2.0 kg/ha	2.2 kg/ha	2.5 kg/ha	2.0 kg/ha
Forecrop	n/a	winter wheat	winter barley	winter wheat	winter wheat	winter barley	winter wheat
Type of sprayer	BOSPHO	BOSPHO	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Date of treatment	08.05.2023	25.05.2023	26.04.2024	15.04.2024	29.04.2024	29.04.2024	24.04.2024
Plant development phase	BBCH 63-65	BBCH 65-69	BBCH 62-64	BBCH 62-64	BBCH 61-63	BBCH 64-67	BBCH 63-64
Soil type	loamy sand	loamy sand	loamy sand	sandy loam	sandy loam	loamy sand	sandy loam
pH	6.0	6.0	6.3	6.2	5.65	6.3	6.2
Water (L/ha)	200 L/ha	200 L/ha	200 L/ha	300 L/ha	200 L/ha	300 L/ha	200 L/ha
Plot size	2.0 x 12.0 = 24.0 m^2	2.0 x 10.0 = 20.0 m^2	5.0 m x 5.0 m = 25.0 m2	5.0 m x 6.0 m = 30.0 m2	5.0 m x 5.5 m = 27.5 m2	5.0 m x 5.0 m = 25.0 m2	5.0 m x 6.0 m = 30.0 m2

Winter oilseed rape – one application II

Report code	A.T/2024/008/ RZO	AI/24/RO/1/Pr /01	AI/24/RO/1/Zl/ 02	AI/24/RO/1/Br /03	AI/24/RO/1/Ma/04	AI/24/RO/1/J W/05	AI/24/RO/1/Da /06
Location	Lichnowy / Poland	Przybroda / Poland	Suchy Las / Poland	Lwówek / Poland	Machary / Poland	Janowiec Wielkopolski / Poland	Dalekie / Poland
Plant/cultivar	winter oilseed rape/ Onca	winter oilseed rape/ Harry	winter oilseed rape/ Architect	winter oilseed rape/ Ambassador	winter oilseed rape/ Graf	winter oilseed rape/ Berny	winter oilseed rape/ Chrobry
Seeding date	30.08.2023	25.08.2023	25.08.2023	31.08.2023	09.09.2023	28.08.2023	28.08.2023
Seeding rate	2.2 kg/ha	3.0 kg/ha	3.0 kg/ha	3.6 kg/ha	3.0 kg/ha	2.9 kg/ha	2.9 kg/ha
Forecrop	winter wheat	winter barley	spring barley	winter wheat	winter wheat	winter wheat	spring wheat
Type of sprayer	BACCAI	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BOSPHO	BOSPHO
Date of treatment	08.05.2024	07.05.2024	08.05.2024	29.04.2024	13.05.2024	06.05.2024	14.05.2024
Plant development phase	BBCH 65-67	BBCH 65-67	BBCH 67-69	BBCH 69-71	BBCH 69	BBCH 65-69	BBCH 69
Soil type	sandy loam	loamy sand	sandy loam	sandy loam	sandy loam	sandy loam	sandy loam
pH	5.65	6	5.9	6.6	5.9	6	5.9
Water (L/ha)	200 L/ha	250 L/ha	250 L/ha	230 L/ha	250 L/ha	200 L/ha	200 L/ha
Plot size	5.0 m x 5.5 m = 27.5 m2	2.5 m x 10.0 m = 25.0 m2	2.5 m x 10.0 m = 25.0 m2	2.5 m x 9.0 m = 22.5 m2	3.0 m x 10.0 m = 30.0 m2	2.0 m x 12.5 m = 25.0 m2	2.5 m x 10.0 m = 25.0 m2

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 selectivity assessment can be found at Appendix 6.

Table 3.4-3: Phytotoxicity of product

The 47 trials were carried out in maize, potato, apple and winter oilseed rape in Poland in 2023 and 2024 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report.

Maize

Number of trials with		Efficacy trials (6)	
		CLOROL 200 SC	Coragen 200 SC
		N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	0	0
	>5% to 10%	0	0
	>10% to 15%	0	0
	>15 %	0	0
Level of symptoms at the last assessments	0% to 5%	0	0

	>5% to 10%	0	0
	>10% to 15%	0	0
	>15 %	0	0

Potato

Number of trials with		Efficacy trials (6)			
		CLOROL 200 SC	Coragen 200 SC	CLOROL 200 SC	Coragen 200 SC
		N – 0.05 L/ha	N – 0.05 L/ha	N – 0.0625 L/ha	N – 0.0625 L/ha
Maximum of phyto-toxicity recorded dur-ing the trials	0% to 5%	0	0	0	0
	>5% to 10%	0	0	0	0
	>10% to 15%	0	0	0	0
	>15 %	0	0	0	0
Level of symptoms at the last assessments	0% to 5%	0	0	0	0
	>5% to 10%	0	0	0	0
	>10% to 15%	0	0	0	0
	>15 %	0	0	0	0

Apple

Number of trials with		Efficacy trials (21)	
		CLOROL 200 SC	Coragen 200 SC
		N	N
Maximum of phytotoxicity record-ed during the trials	0% to 5%	0	0
	>5% to 10%	0	0
	>10% to 15%	0	0
	>15 %	0	0
Level of symptoms at the last as-sessments	0% to 5%	0	0
	>5% to 10%	0	0
	>10% to 15%	0	0
	>15 %	0	0

Winter oilseed rape – one application

Number of trials with	Efficacy trials (14)	
	CLOROL 200 SC	Carnadine 200 SC

		N	N
Maximum of phytotoxicity recorded during the trials	0% to 5%	0	0
	>5% to 10%	0	0
	>10% to 15%	0	0
	>15 %	0	0
Level of symptoms at the last assessments	0% to 5%	0	0
	>5% to 10%	0	0
	>10% to 15%	0	0
	>15 %	0	0

dRR point 3.4.1	ZRMS conclusion
The applicant submitted 47 efficacy reports where phytotoxicity of the product was carried out at the proposed maximum use rate of: - 0,125 l/ha in maize at BBCH 58-69 - 0,625 l/ha in potato at BBCH 33-79 - 0,175 l/ha in apple at BBCH 53-79 - 0,175 l/ha in winter oilseed rape at BBCH 61-71 No symptoms of phytotoxicity were observed in efficacy trials.	

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

According to RR Part B Section 7 Efficacy Data and Information of Chlorantraniliprole 200 g/L SC (Document Number - DuPont-39450 CEU, Revision No. 1):
Due to the pesticidal nature of Coragen 200 SC purely insecticidal, it is not expected that any negative effect on yield or quality is likely. This theory is further supported by the lack of any crop phytotoxic effects observed throughout the whole test period of Coragen 200 SC on all crops tested. In general, there are limited data requirements for recording of yield in insecticide trials, therefore discussion on the impact of yield and quality for the target crops of Coragen 200 SC is more directly related to product efficacy and resultant produce residues.

Maize

Influence of CLOROL 200 SC on the yield was evaluated in selectivity research. The yield was evaluated on the basis of harvested maize quantity from one hectare (t/ha).
The 6 trials were carried out in maize in Poland in 2023 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report.
There weren't difference between the treatment objects and standard. Details of the data shows table below.

table 3.4.2.1-1 The influence of the CLOROL 200 SC on yield quantity [t/ha]

Type of assessment	**YIELD [t/ha]**								
Report code	**A.T/2023/029/KK**	**AI/23/K/28/Zl/01**	**AI/23/K/28/Mr/02**	**AI/23/K/28/Ma/03**	**AI/23/K/28/Jan/04**	**AI/23/K/28/Jbl/05**			
Assessment date	09.10.2023	02.11.2023	09.10.2023	13.10.2023	14.11.2023	25.10.2023			
Days after application DA-A	77 DA-A	104 DA-A	83 DA-A	84 DA-A	119 DA-A	83 DA-A	**Average**	**Min.**	**Max.**

No.	Name	Rate (L/ha)								
1	Untreated Check	-	10.50	10.77	9.03	10.02	10.24	8.40	9.83	8.40	10.77
2	CLOROL 200 SC	0.125	10.84	11.38	9.90	10.78	10.95	9.30	10.53	9.30	11.38
3	Coragen 200 SC	0.125	11.03	11.25	10.01	10.80	11.09	9.40	10.60	9.40	11.25
LSD(P=.05)			0.999	0.413	0.479	0.626	0.369	0.110			

Potato

Influence of CLOROL 200 SC on the yield was evaluated in selectivity research. The yield was evaluated on the basis of harvested potato quantity from one hectare (t/ha).
The 6 trials were carried out in potato in Poland in 2023 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report.
There weren't difference between the treatment objects and standard. Details of the data shows table below.

table 3.4.2.1-2 The influence of the CLOROL 200 SC on yield quantity [t/ha]

Type of assessment			yield [kg/ha]								
Report code			**A.T/2023/027/ZZ**	**A.T/2023/028/ZZ**	**AI/23/Z/28/ZI/01**	**AI/23/Z/28/Gr/02**	**AI/23/Z/28/Br/03**	**AI/23/Z/28/Pr/04**			
Assessment date			01.09.2023	04.09.2023	05.09.2023	03.10.2023	12.09.2023	29.09.2023			
Days after application DA-B			69 DA-B	70 DA-B	53 DA-B	89 DA-B	63 DA-B	101 DA-B	**Average**	**Min.**	**Max.**
No.	Name	Rate (L/ha)									
1	Untreated Check	-	22.35	17.40	28.84	27.02	27.44	41.22	27.38	17.40	41.22
2	CLOROL 200 SC	0.05	29.86	23.12	34.12	29.29	28.92	43.46	31.46	23.12	43.46
3	Coragen 200 SC	0.05	28.72	23.21	37.94	29.96	31.42	44.77	32.67	23.21	44.77
4	CLOROL 200 SC	0.0625	31.30	23.55	38.95	30.18	28.35	45.90	33.04	23.55	45.90
5	Coragen 200 SC	0.0625	30.92	23.01	39.71	31.43	30.26	46.13	33.58	23.01	46.13
LSD(P=.05)			4.445	2.209	5.813	1.750	2.320	2.082			

Apple

Influence of CLOROL 200 SC on the yield was evaluated in selectivity research. The yield was evaluated on the basis of harvested apple quantity from one hectare (t/ha).
The 21 trials were carried out in apple in Poland in 2024 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report.
There weren't difference between the treatment objects and standard. Details of the data shows table below.

table 3.4.2.1-3 The influence of the CLOROL 200 SC on yield quantity [t/ha]

Type of assessment	Report code	Assessment date	Days after application DA-A	No.	1	2	3	4	5	6	7	LSD(P=.05)
				Name	Untreated Check	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	Coragen 200 SC	
				Rate (mL/ha)	-	75	100	125	150	175	175	
YIELD [t/ha]	**EU-23-1072-01**	08.10.2024	59 DA-A		33.20	34.10	34.90	35.000	35.100	35.100	35.200	0.180
	EU-23-1072-02	08.10.2024	59 DA-A		35.10	35.40	35.60	35.700	35.700	35.800	35.800	0.240

EU-23-1072-03	26.09.2024	139 DA-A; 135 DA-B		10.50	10.70	10.90	11.000	11.100	11.200	11.300	0.520
EU-23-1072-04	24.09.2024	106 DA-A; 92 DA-B		23.60	25.00	24.40	24.800	25.100	25.800	26.900	1.760
EU-23-1073-01	09.10.2024	177 DA-A; 163 DA-B		33.00	33.40	33.90	33.900	34.000	34.000	34.100	1.060
EU-23-1073-02	09.10.2024	177 DA-A; 163 DA-B		39.00	39.10	39.80	39.900	39.900	40.000	40.000	0.390
EU-23-1073-03	29.08.2024	133 DA-A; 121 DA-B		41.40	41.90	42.00	42.700	42.900	43.100	42.700	2.240
EU-23-1073-04	27.09.2024	165 DA-A; 151 DA-B		26.23	30.47	30.81	32.840	31.370	33.100	30.940	3.192
EU-23-1075-01	10.10.2024	61 DA-A; 47 DA-B		46.10	47.30	48.50	48.600	48.700	48.700	48.900	0.300
EU-23-1075-02	10.10.2024	61 DA-A; 47 DA-B		58.10	58.70	59.10	59.100	59.200	59.300	59.400	0.320
EU-23-1075-03	26.09.2024	125 DA-A; 108 DA-B		27.71	29.21	29.78	29.580	29.970	30.240	30.100	1.201
EU-23-1075-04	14.10.2024	157 DA-A; 143 DA-A		36.18	37.05	37.07	36.253	36.722	36.134	37.304	3.756
AI/24/Jbl/7/Pr/01	22.08.2024	97 DA-A; 79 DA-B		20.50	21.10	21.50	20.500	20.500	20.100	20.600	6.620
AI/24/Jbl/7/Pr/02	22.08.2024	97 DA-A; 79 DA-B		22.10	22.30	22.80	21.600	21.700	21.600	21.800	4.840
AI/24/Jbl/7/Sz/03	16.09.2024	125 DA-A; 105 DA-B		21.40	21.10	21.50	20.500	20.500	20.100	20.600	6.590
AI/24/Jbl/7/Pr/04	22.08.2024	97 DA-A; 79 DA-B		40.80	39.80	39.80	41.700	41.800	41.900	41.400	4.240
AI/24/Jbl/7/Pr/05	29.08.2024	104 DA-A; 86 DA-A		53.40	53.10	54.00	54.400	56.200	55.200	55.100	16.930
AI/24/Jbl/7/Sz/06	16.09.2024	125 DA-A; 105 DA-B		53.00	56.30	57.20	57.400	60.900	60.600	57.400	12.000

	AI/24/Jbl/7/Pr/07	10.09.2024	147 DA-A; 127 DA-B		30.10	30.30	30.30	30.500	30.600	30.900	30.500	2.570
	AI/24/Jbl/7/Pr/08	10.09.2024	147 DA-A; 127 DA-B		12.7	12.70	13.00	13.4	13.3	13.4	13.4	7.65
	AI/24/Jbl/7/Sz/09		157 DA-A; 142 DA-B		36.90	37.10	37.40	37.900	37.900	38.300	37.900	8.460
			Ave-rage		33.38	34.10	34.49	34.63	34.91	34.98	34.83	
			Min.		10.50	10.70	10.90	11.00	11.10	11.20	11.30	
			Max.		58.10	58.70	59.10	59.10	60.90	60.60	59.40	

Winter oilseed rape – one application

Influence of CLOROL 200 SC on the yield was evaluated in selectivity research. The yield was evaluated on the basis of harvested winter oilseed rape quantity from one hectare (t/ha). The 14 trials were carried out in winter oilseed rape in Poland in 2023 and 2024 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report. There weren't difference between the treatment objects and standard. Details of the data shows tables below.

table 3.4.2.1-4 The influence of the CLOROL 200 SC on yield quantity [t/ha]

Type of as-sess-ment	Report code	As-sess-ment date	Days after appli-cation DA-A	No.	1	2	3	4	5	6	7	LSD(P=.05)
				Na-me	Untreated Check	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	Carnadine 200 SC	
				Rate (mL/ha)	-	75	100	125	150	175	250	
YIELD [t/ha]	**AI/23/RO/28/Pr/01**	06.07.2023	59 DA-A		3.70	4.00	3.90	4.00	4.00	4.00	4.00	0.170
	AI/23/RO/28/Zl/02	18.07.2023	54 DA-A		2.90	3.30	3.40	3.50	3.60	3.80	3.70	0.21
	A.T/2024/003/RZO	15.07.2024	80 DA-A		4.78	4.83	4.89	4.81	4.83	4.86	4.84	0.280
	A.T/2024/004/RZO	10.07.2024	86 DA-A		4.71	4.80	4.77	4.76	4.81	4.80	4.73	0.265
	A.T/2024/005/RZO	30.07.2024	92 DA-A		2.82	2.87	2.87	2.86	2.94	2.96	2.88	0.199
	A.T/2024/006/RZO	15.07.2024	77 DA-A		4.90	4.98	4.93	5.08	4.90	5.00	4.90	0.291
	A.T/2024/007/RZO	10.07.2024	77 DA-A		4.73	4.86	4.87	4.95	4.94	4.71	4.95	0.321
	A.T/2024/008/RZO	30.07.2024	83 DA-A		2.10	2.15	2.30	2.53	2.60	2.34	2.44	0.902
	AI/24/RO/1/Pr/01	09.07.2024	63 DA-A		1.45	1.48	1.57	1.60	1.51	1.56	1.54	0.224
	AI/24/RO/1/Zl/02	03.07.2024	56 DA-A		2.02	2.33	2.34	2.26	2.35	2.36	2.36	0.322
	AI/24/RO/1/Br/03	08.07.2024	70 DA-A		2.46	2.74	2.58	2.68	2.86	2.65	2.80	0.413

	AI/24/RO/1/Ma/04	12.08.2024	91 DA-A		1.70	2.09	2.26	2.20	2.27	2.21	2.21	0.314
	AI/24/RO/1/JW/05	05.07.2024	60 DA-A		1.78	1.97	1.85	1.90	2.02	2.07	2.07	0.323
	AI/24/RO/1/Da/06	10.07.2024	57 DA-A		1.84	1.83	1.83	2.00	1.93	2.01	1.88	0.295
				Average	2.99	3.16	3.17	3.22	3.25	3.24	3.24	
				Min.	1.45	1.48	1.57	1.60	1.51	1.56	1.54	
				Max.	4.90	4.98	4.93	5.08	4.94	5.00	4.95	

Table 3.4-4: Relationship between phytotoxicity and yield.

The 14 trials were carried out in maize, potato and winter oilseed rape in Poland in 2023 and 2024 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report.
No significant differences in the yield were noted.

Comments of zRMS:	Yield of protected crops was tested in all presented efficacy trials. No negative effects on the yield are expected after the application of CLOROL 200 SC.

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

Maize

The 6 trials were carried out in maize in Poland in 2023 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report.
There weren't difference between the treatment objects and standard. Details of the data shows tables below.

table 3.4.3.1 The influence of the CLOROL 200 SC on quality of yield – moisture %

Type of assessment			**moisture content [%]**								
Report code			**A.T/2023/029/KK**	**AI/23/K/28/Zl/01**	**AI/23/K/28/Mr/02**	**AI/23/K/28/Ma/03**	**AI/23/K/28/Jan/04**	**AI/23/K/28/Jbl/05**			
Assessment date			09.10.2023	02.11.2023	09.10.2023	13.10.2023	14.11.2023	25.10.2023			
Days after application DA-A			77 DA-A	104 DA-A	83 DA-A	84 DA-A	119 DA-A	83 DA-A	**Average**	**Min.**	**Max.**
No.	Name	Rate (L/ha)									
1	Untreated Check	-	19.97	22.50	25.20	21.50	21.70	20.71	21.93	19.97	25.20
2	CLOROL 200 SC	0.125	19.97	22.30	25.10	21.60	21.50	20.66	21.86	19.97	25.10
3	Coragen 200 SC	0.125	19.84	22.49	25.70	21.80	21.60	20.80	22.04	19.84	25.70
LSD(P=.05)			0.440	0.580	0.740	0.560	0.66	0.536			

table 3.4.3.2 The influence of the CLOROL 200 SC on quality of yield – TKW g

Type of assessment	**TKW [g]**								
Report code	**A.T/2023/029/KK**	**AI/23/K/28/Zl/01**	**AI/23/K/28/Mr/02**	**AI/23/K/28/Ma/03**	**AI/23/K/28/Jan/04**	**AI/23/K/28/Jbl/05**			
Assessment date	09.10.2023	15.11.2023	06.11.2023	27.10.2023	15.11.2023	25.10.2023			
Days after application DA-A	77 DA-A	117 DA-A	111 DA-A	98 DA-A	120 DA-A	83 DA-A	**Average**	**Min.**	**Max.**

No.	Name	Rate (L/ha)								
1	Untreated Check	-	327.40	295,28	288.43	272.77	262.06	338.13	297.76	262.06	338.13
2	CLOROL 200 SC	0.125	329.21	291.30	295.74	280.86	254.15	331.13	297.07	254.15	331.13
3	Coragen 200 SC	0.125	329.91	297.78	290.34	280.09	257.37	324.46	296.66	257.37	329.91
LSD(P=.05)			0.840	8.381	2.229	24.298	8.704	21.455			

table 3.4.3.3 The influence of the CLOROL 200 SC on quality of yield – HLW kg/hL

Type of assessment			HLW [kg/hL]								
Report code			**A.T/2023/029/KK**	**AI/23/K/28/Zl/01**	**AI/23/K/28/Mr/02**	**AI/23/K/28/Ma/03**	**AI/23/K/28/Jan/04**	**AI/23/K/28/Jbl/05**			
Assessment date			09.10.2023	15.11.2023	06.11.2023	27.10.2023	15.11.2023	25.10.2023			
Days after application DA-A			77 DA-A	117 DA-A	111 DA-A	98 DA-A	120 DA-A	83 DA-A	**Average**	**Min.**	**Max.**
No.	Name	Rate (L/ha)									
1	Untreated Check	-	64.43	70.53	73.36	73.50	74.10	71.40	71.22	64.43	74.10
2	CLOROL 200 SC	0.125	64.35	70.09	73.91	74.00	75.30	71.46	71.52	64.35	75.30
3	Coragen 200 SC	0.125	64.40	70.96	73.46	73.70	74.30	71.16	71.33	64.40	74.30
LSD(P=.05)			0.753	2.017	1.973	1.870	2.37	1.160			

Potato

The 6 trials were carried out in potato in Poland in 2023 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report.
There weren't difference between the treatment objects and standard. Details of the data shows tables below.

table 3.4.3.4 The influence of the CLOROL 200 SC on quality of yield – starch content %

Type of assessment			starch content [%]								
Report code			**A.T/2023/027/ZZ**	**A.T/2023/028/ZZ**	**AI/23/Z/28/Zl/01**	**AI/23/Z/28/Gr/02**	**AI/23/Z/28/Br/03**	**AI/23/Z/28/Pr/04**			
Assessment date			11.09.2023	11.09.2023	11.09.2023	09.10.2023	28.09.2023	09.10.2023			
Days after application DA-A			79 DA-B	77 DA-B	59 DA-B	95 DA-B	79 DA-B	111 DA-B	**Average**	**Min.**	**Max.**
No.	Name	Rate (L/ha)									
1	Untreated Check	-	14.38	13.44	12.00	11.80	10.10	10.70	12.07	10.10	14.38
2	CLOROL 200 SC	0.05	14.73	12.90	12.20	11.70	10.20	10.90	12.10	10.20	14.73
3	Coragen 200 SC	0.05	14.39	12,95	12.50	11.60	10.20	11.20	11.98	10.20	14.39
4	CLOROL 200 SC	0.0625	14.56	13.13	12.50	11.80	10.10	11.20	12.21	10.10	14.56
5	Coragen 200 SC	0.0625	14.44	12.76	12.40	11.80	10.10	11.10	12.10	10.10	14.44
LSD(P=.05)			1.065	0.533	0.700	0.700	0.260	0.700			

Winter oilseed rape – one application

The 14 trials were carried out in winter oilseed rape in Poland in 2023 and 2024 on a wide range of commercially grown varieties. No phytotoxicity symptoms were reported in any report. There weren't differ-

ence between the treatment objects and standard. Details of the data shows tables below.

table 3.4.3.5 The influence of the CLOROL 200 SC on quality of yield – moisture %

Type of assessment	Report code	Assessment date	Days after application DA-A	No.	1	2	3	4	5	6	7	LSD(P=.05)
				Name	Untreated Check	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	Carnadine 200 SC	
				Rate (mL/ha)	-	75	100	125	150	175	250	
moisture content [%]	AI/23/RO/28/Pr/01	06.07.2023	59 DA-A		5.23	5.23	5.28	5.25	5.28	5.25	5.23	0.077
	AI/23/RO/28/Zl/02	18.07.2023	54 DA-A		4.90	4.88	4.93	4.90	4.90	4.88	4.90	0.061
	A.T/2024/003/RZO	15.07.2024	80 DA-A		5.73	5.70	5.73	5.53	5.65	5.60	5.60	0.389
	A.T/2024/004/RZO	10.07.2024	86 DA-A		5.78	5.95	5.93	5.85	5.85	6.00	5.88	0.252
	A.T/2024/005/RZO	30.07.2024	92 DA-A		7.58	7.48	7.40	7.30	7.25	7.58	7.30	0.503
	A.T/2024/006/RZO	15.07.2024	77 DA-A		5.83	5.80	5.70	5.68	5.80	5.60	5.60	0.314
	A.T/2024/007/RZO	10.07.2024	77 DA-A		6.23	6.20	6.33	6.18	6.20	6.28	6.28	0.275
	A.T/2024/008/RZO	30.07.2024	83 DA-A		8.08	7.83	7.70	7.50	7.53	7.93	7.65	0.404
	AI/24/RO/1/Pr/01	09.07.2024	63 DA-A		10.33	10.60	10.75	10.20	10.60	10.75	10.73	0.530
	AI/24/RO/1/Zl/02	03.07.2024	56 DA-A		10.20	10.00	10.08	9.70	10.30	9.70	9.80	0.506
	AI/24/RO/1/Br/03	08.07.2024	70 DA-A		6.83	6.93	6.80	6.85	6.75	7.13	7.10	0.715
	AI/24/RO/1/Ma/04	09.07.2024	57 DA-A		2.08	8.00	7.13	6.73	7.50	7.18	7.20	0.902
	AI/24/RO/1/JW/05	05.07.2024	60 DA-A		8.95	8.78	9.00	9.10	9.25	9.13	9.33	0.501
	AI/24/RO/1/Da/06	10.07.2024	57 DA-A		7.95	7.90	7.48	7.30	7.20	8.00	7.63	0.836
				Average	6.84	7.23	7.16	7.01	7.15	7.22	7.16	
				Min.	2.08	4.88	4.93	4.90	4.90	4.88	4.90	
				Max.	10.33	10.60	10.75	10.20	10.60	10.75	10.73	

table 3.4.3.6 The influence of the CLOROL 200 SC on quality of yield – TGW g

Type of assessment	Report code	Assessment date	Days after application DA-A	No.	1	2	3	4	5	6	7	LSD(P=.05)
				Name	Untreated Check	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	Carnadine 200 SC	
				Rate (mL/ha)	-	75	100	125	150	175	250	
TGW [g]	AI/23/RO/28/Pr/01	06.07.2023	59 DA-A		5.39	5.54	5.82	5.76	5.87	5.79	5.72	0.119
	AI/23/RO/28/Zl/02	18.07.2023	54 DA-A		4.97	5.15	5.15	5.19	5.23	5.30	5.25	0.1874

	A.T/2024/003/RZO	30.07.2024	95 DA-A		4.90	4.83	4.90	4.93	4.90	4.95	4.83	0.685
	A.T/2024/004/RZO	24.07.2024	100 DA-A		5.23	5.40	5.33	5.25	5.25	5.15	5.23	0.810
	A.T/2024/005/RZO	30.08.2024	123 DA-A		7.40	7.38	7.53	7.43	7.48	7.50	7.40	0.330
	A.T/2024/006/RZO	29.07.2024	91 DA-A		4.90	4.98	4.93	5.08	4.90	5.00	4.90	0.291
	A.T/2024/007/RZO	29.07.2024	96 DA-A		5.73	5.78	5.75	5.75	5.73	5.55	5.73	0.646
	A.T/2024/008/RZO	28.08.2024	112 DA-A		7.23	6.93	7.10	7.08	7.00	7.15	7.05	0.564
	AI/24/RO/1/Pr/01	29.08.2024	114 DA-A		6.81	6.85	6.81	6.76	6.85	6.86	6.85	0.377
	AI/24/RO/1/Zl/02	21.08.2024	105 DA-A		5.98	6.18	6.09	6.17	6.16	6.30	6.09	0.398
	AI/24/RO/1/Br/03	13..08.2024	106 DA-A		5.98	6.02	5.94	5.97	5.95	5.93	5.91	0.242
	AI/24/RO/1/Ma/04	12.08.2024	91 DA-A		5.00	4.80	4.46	5.02	4.84	4.88	4.66	0.509
	AI/24/RO/1/JW/05	19.08.2024	105 DA-A		6.06	6.13	5.74	5.86	5.91	6.20	5.68	0.553
	AI/24/RO/1/Da/06	29.08.2024	107 DA-A		5.70	5.91	5.82	5.82	5.79	5.91	5.89	0.380
				Average	5.80	5.85	5.81	5.86	5.85	5.89	5.80	
				Min.	4.90	4.80	4.46	4.93	4.84	4.88	4.66	
				Max.	7.40	7.38	7.53	7.43	7.48	7.50	7.40	

table 3.4.3.7 The influence of the CLOROL 200 SC on quality of yield – HLW kg/hL

Type of assessment	Report code	Assessment date	Days after application DA-A	No.	1	2	3	4	5	6	7	LSD(P=.05)
				Name	Untreated Check	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	Carnadine 200 SC	
				Rate (mL/ha)	-	75	100	125	150	175	250	
HLW [kg/HL]	**AI/23/RO/28/Pr/01**	06.07.2023	59 DA-A		66.70	66.98	66.83	66.60	66.65	67.55	67.50	1.504
	AI/23/RO/28/Zl/02	18.07.2023	54 DA-A		65.60	66.30	67.05	66.38	67.50	67.18	66.80	2.004
	A.T/2024/003/RZO	30.07.2024	95 DA-A		64.43	64.23	64.68	64.35	64.45	64.33	64.55	0.454
	A.T/2024/004/RZO	24.07.2024	100 DA-A		67.73	67.75	67.70	67.68	67.68	67.65	67.48	0.294
	A.T/2024/005/RZO	30.08.2024	123 DA-A		55.98	55.88	56.15	56.63	57.05	56.08	56.33	1.015
	A.T/2024/006/RZO	29.07.2024	91 DA-A		64.43	64.28	64.53	64.35	64.53	64.58	64.33	0.281
	A.T/2024/007/RZO	29.07.2024	96 DA-A		67.40	67.25	67.43	67.38	67.35	67.35	67.60	0.360
	A.T/2024/008/RZO	28.08.2024	112 DA-A		55.90	55.95	56.63	56.48	56.30	56.55	57.08	0.888

	AI/24/RO/1/Pr/01	29.08.2024	114 DA-A		63.75	63.73	64.23	65.30	63.88	65.03	64.65	3.169
	AI/24/RO/1/Zl/02	21.08.2024	105 DA-A		58.43	61.63	62.43	61.80	63.10	60.88	59.99	2.625
	AI/24/RO/1/Br/03	13..08.2024	106 DA-A		64.75	62.73	6.73	63.60	63.85	62.05	62.10	4.685
	AI/24/RO/1/Ma/04	12.08.2024	91 DA-A		61.93	64.25	65.98	64.43	61.90	64.80	60.10	4.322
	AI/24/RO/1/JW/05	19.08.2024	105 DA-A		60.10	60.08	58.50	59.73	59.53	56.93	59.93	4.150
	AI/24/RO/1/Da/06	29.08.2024	107 DA-A		61.85	63.38	66.55	64.88	67.83	64.25	66.60	5.841
				Ave-rage	62.78	63.17	59.67	63.54	63.69	63.23	63.22	
				Min.	55.90	55.88	6.73	56.48	56.30	56.08	56.33	
				Max.	67.73	67.75	67.70	67.68	67.83	67.65	67.60	

table 3.4.3.8 The influence of the CLOROL 200 SC on quality of yield – oil content %

Type of as-sess-ment	Report code	As-sess-ment date	Days after appli-cation DA-A	No.	1	2	3	4	5	6	7	LSD(P=.05)
				Na-me	Untreated Check	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	CLOROL 200 SC	Carnadine 200 SC	
				Rate (mL/ha)	-	75	100	125	150	175	250	
Oil con-tent [%]	**AI/23/RO/28/Pr/01**	06.07.2023	59 DA-A		39.20	39.20	39.20	39.30	39.40	39.40	39.30	-
	AI/23/RO/28/Zl/02	18.07.2023	54 DA-A		38.10	38.40	38.50	38.30	38.50	38.40	38.30	-
	A.T/2024/003/RZO	30.07.2024	95 DA-A		45.75	45.95	45.53	45.65	45.13	45.68	45.90	0.750
	A.T/2024/004/RZO	24.07.2024	100 DA-A		45.70	45.13	45.40	45.55	45.03	45.33	45.85	0.558
	A.T/2024/005/RZO	30.08.2024	123 DA-A		41.03	40.65	40.85	40.70	40.93	40.35	40.60	0.528
	A.T/2024/006/RZO	29.07.2024	91 DA-A		45.80	45.65	45.53	45.85	45.75	45.78	46.38	0.546
	A.T/2024/007/RZO	29.07.2024	96 DA-A		43.93	44.85	44.88	44.73	44.78	44.23	44.78	0.518
	A.T/2024/008/RZO	28.08.2024	112 DA-A		40.10	40.25	40.25	40.33	40.00	39.93	40.40	0.347
	AI/24/RO/1/Pr/01	29.08.2024	114 DA-A		41.20	41.30	41.60	41.50	41.70	42.00	42.60	-
	AI/24/RO/1/Zl/02	21.08.2024	105 DA-A		43.20	43.40	43.70	42.80	43.10	43.40	43.20	-
	AI/24/RO/1/Br/03	13..08.2024	106 DA-A		39.40	39.20	39.70	39.90	38.80	39.50	38.80	-
	AI/24/RO/1/Ma/04	05.09.2024	115 DA-A		44.50	44.60	45.50	45.20	45.40	45.00	45.50	-
	AI/24/RO/1/JW/05	19.08.2024	105 DA-A		43.00	43.20	44.70	41.30	42.00	42.90	42.20	-
	AI/24/RO/1/Da/06	06.09.2024	115 DA-A		41.00	42.00	42.30	42.60	42.40	42.50	43.00	-
				Ave-	42.28	42.41	42.69	42.41	42.35	42.46	42.63	

rage							
Min.	38.10	38.40	38.50	38.30	38.50	38.40	38.30
Max.	45.80	45.95	45.53	45.85	45.75	45.78	46.38

Comments of zRMS:	No negative effects on the quality of plants or plant products are expected after the application of CLOROL 200 SC.

3.4.4. Effects on transformation processes (KCP 6.4.4)

Lack of additional tests in this range. Active substances comprising in this product have been applied for many years, not only in Poland but also in the other countries of Europe.
According *EPPO 1/243 (2) Effects of plant protection products on transformation processes* and Section B7 additional study is not required.

According to RR Part B Section 7 Efficacy Data and Information of Chlorantraniliprole 200 g/L SC (Document Number - DuPont-39450 CEU, Revision No. 1):
Information on effects on processing procedures, refer to the document Biological Assessment Dossier DuPont-39450 CEU, Revision No. 1.

Comments of zRMS:	No negative effects on transformation processes are expected. The product has no fungicidal properties.

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

Lack of additional tests in this range. According to EPPO standard PP 1/135 'Phytotoxicity assessment' in case of insecticide there no data on plant parts for propagation are required.
In the course of studies carried out in Poland in the season of 2023 on product CLOROL 200 SC the insecticide has not been observed to have any significant influence on yield and yield quality of maize, potato and winter oilseed rape. What is more, there have been no phytotoxicity symptoms accounted for in various cultivars of crops. In that case no further testing is needed.

Comments of zRMS:	No negative effects on treated plants or plant products to be used for propagation are expected. The product did not adversely affect the yields of treated crops, nor were phytotoxic effects observed on crops. Moreover, the active substance has no systemic activity.

Summary and conclusion

Insecticide CLOROL 200 SC has demonstrated good crop tolerance to maize, potato, apple and winter oilseed rape. Therefore concluded that CLOROL 200 SC is safe usage at proposed rate and this support the label claim for the use in maize, potato, apple and winter oilseed rape. Undesirable effects are not expected on part of plants used for propagating purposes.
According to RR Part B Section 7 Efficacy Data and Information of Chlorantraniliprole 200 g/L SC (Document Number - DuPont-39450 CEU, Revision No. 1):

It is therefore concluded that Coragen 200 SC will have no phytotoxic effects on any of the proposed target crops.

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

3.5.1. Impact on succeeding crops (KCP 6.5.1)

According to RR Part B Section 7 Efficacy Data and Information of Chlorantraniliprole 200 g/L SC (Document Number - DuPont-39450 CEU, Revision No. 1):
There are no restrictions of planting crops following Chlorantraniliprole 200 g/L SC application. A negative impact on succeeding crops is not expected since Chlorantraniliprole 200 g/L SC is an insecticide and has no herbicidal activity.
Information on impact on succeeding crops, refer to the document Biological Assessment Dossier DuPont-39450 CEU, Revision No. 1.

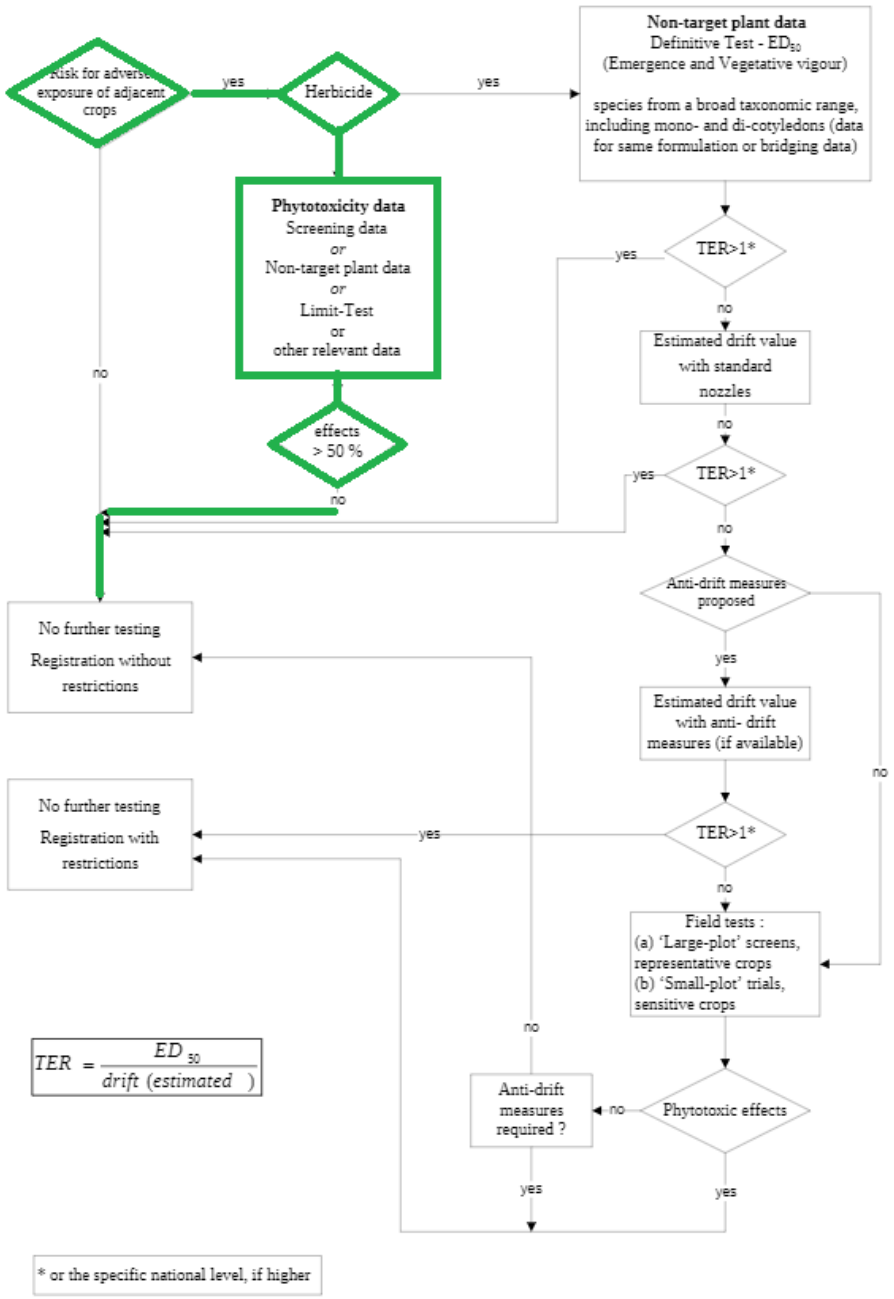
Comments of zRMS:	The risk of adverse impact of CLOROL 200 SC on succeeding crops is not expected.

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

No specific studies were conducted to fill this data point.
According to EPPO 1/256 - Decision-support scheme for the risk assessment for adjacent crops - Toxicity values are compared with predicted environmental concentrations to develop a Toxicity:Exposure-Ratio (TER is calculated as the ED50-value divided by the estimated drift value Appendix 2. Progression to the next tier is warranted if the safety margin is not met, while testing is stopped if the safety margin is met or exceeded.
Tier 0: If no adverse exposure of adjacent crops will occur under field conditions (e.g. seed treatment, use of granules, application by watering can) no further testing is necessary.
Tier 1: If a relevant exposure is likely. If the plant protection product causes no phytotoxic symptoms on the plant species tested, no further testing is necessary.
Tier 2: If phytotoxicity is observed, dose-response relationships for species representing plant families for which significant negative activity has been found should be generated to quantify the level of effect using both soil and foliar exposure scenarios.
CLOROL 200 SC analyse for decision if further testing is necessary.
According EPPO 1/256, Appendix 2 Decision-support scheme for the risk assessment for adjacent crops on green applicant marked path of analyse.

PP 1/256 (1)

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



CLOROL 200 SC is insecticide so there is risk for adverse exposure of adjacent crops. When analysing phytotoxicity CLOROL 200 SC in maize, potato and winter oilseed rape there were no report with the phytotoxicity symptoms in maize, potato, apple and winter oilseed rape in all phytotoxicity trials (assessments) conducted in Poland.

In all efficacy trails no effect on non-target organisms was observed.
When phytotoxicity effects are below 50% no further testing is needed. Registration without restrictions.
When Non target plant data TER >1 no further testing is needed. Registration without restrictions.

The risk assessment is based on the "Guidance Document on Terrestrial Ecotoxicology", (SANCO/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 worst case scenario – 2 application of 110 g as/ha – covers all intended uses from Gap Table.

Assessment of the risk for non-target plants due to the use of CLOROL 200 SC in field crop

Intended use				
Active substance/product	Chlorantraniliprole/Clorol 200 SC			
Application rate (g/ha)	2 × 110			
MAF	1.7			
Test species	**ER_{50} (g as/ha)**	**Drift rate**	**$PER_{off\text{-}field}$ (g/ha)**	**TER criterion: TER ≥ 5**
Ryegrass, corn, oat, onion, cucumber, pea, oilseed rape, soybean, sugarbeet, and tomato.	300	0.0277	5.1799	57.92

MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger.

Assessment of the risk for non-target plants due to the use of CLOROL 200 SC in fruit crops

Intended use				
Active substance/product	Chlorantraniliprole/Clorol 200 SC			
Application rate (g/ha)	2 × 110			
MAF	1.7			
Test species	**ER_{50} (g as/ha)**	**Drift rate**	**$PER_{off\text{-}field}$ (g/ha)**	**TER criterion: TER ≥ 5**
Ryegrass, corn, oat, onion, cucumber, pea, oilseed rape, soybean, sugarbeet, and tomato.	300	0.2920(early)/0.1573(late)	54,6/29.42	5,49 / 10.2

MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger.

Assessment of the risk for non-target plants due to the use of CLOROL 200 SC in grapevine

Intended use				
Active substance/product	Chlorantraniliprole/Clorol 200 SC			
Application rate (g/ha)	2 × 110			
MAF	1.7			
Test species	**ER_{50} (g as/ha)**	**Drift rate**	**$PER_{off\text{-}field}$ (g/ha)**	**TER criterion: TER ≥ 5**
Ryegrass, corn, oat, onion, cucumber, pea, oilseed rape, soybean, sugarbeet, and tomato.	300	0.0270(early)/0.0802 (late)	5.05/15.00	59.4 / 20

MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger.

Assessment of the risk for non-target plants due to the use of CLOROL 200 SC in vegetables, ornamentals, small fruit

Intended use	
Active substance/product	Chlorantraniliprole/Clorol 200 SC
Application rate (g/ha)	2 × 110
MAF	1.7

Test species	**ER_{50} (g as/ha)**	**Drift rate**	**$PER_{off\text{-}field}$ (g/ha)**	**TER criterion: TER ≥ 5**
Ryegrass, corn, oat, onion, cucumber, pea, oilseed rape, soybean, sugarbeet, and tomato.	300	0.0277(h<50cm)/0.0802 (h>50cm)	5,18/15	57.9 / 20

MAF: Multiple application factor; PER: Predicted environmental rate; TER: toxicity to exposure ratio. TER values shown in bold fall below the relevant trigger.

For all data and details with assessment of the risk for non-target plants due to the use of CLOROL 200 SC please refer to section 9 Ecotoxicology point 9.10.

Comments of zRMS:	The risk of impact on other plants including adjacent crops of ASA-01280 SC is not expected with applying buffer zone of 1m mitigation measures.

Tank cleaning

According to Report E. Łata, Study code: ICB/132/2023 the effectiveness of cleaning was done regards to Efficacy Guideline 305:

Single rinse procedure.
a) The bottle was inverted twice, then the bottle was shaken once and the suspension was poured out,
b) 10 mL of tap water was added, the bottle was inverted twice, and the rinsing was poured out,
c) 10 mL of acetonitrile was added and the bottle was shaken to coat all surfaces. The acetonitrile was analysed for the active substances content.

Double rinse procedure.
a) The bottle was inverted twice, then the bottle was shaken once and the suspension was poured out,
b) 10 mL of tap water was added, the bottle was inverted twice, and the rinsing was poured out,
c) point b) was repeated,
d) 10 mL of acetonitrile was added and the bottle was shaken to coat all surfaces. The acetonitrile was analysed for the active substances content.

Triple rinse procedure.
a) The bottle was inverted twice, then the bottle was shaken once and the suspension poured out
b) 10 mL of tap water was added, the bottle was inverted twice, and the rinsing was poured out
c) point b) was repeated twice,
d) 10 mL of acetonitrile was added and the bottle was shaken to coat all surfaces. The acetonitrile was analysed for the active substances content.

Single rinse procedure:
99.88 [%] chlorantraniliprole removed from the bottle
Double rinse procedure:
99.98 [%] chlorantraniliprole removed from the bottle
Triple rinse procedure:
99.99 [%] chlorantraniliprole removed from the bottle

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.
- CLOROL 200 SC is non-corrosive to equipment, non-flammable and non-volatile.

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

According to RR Part B Section 7 Efficacy Data and Information of Chlorantraniliprole 200 g/L SC (Document Number - DuPont-39450 CEU, Revision No. 1):
Chlorantraniliprole 200 g/L SC features an excellent profile with regards to safety to beneficial arthropods and non-target organisms such as earthworms and bees. No specific assessments of beneficials and non-target organisms were taken in the efficacy and crop safety trials; however no adverse effects were noted when visual observations were made within these field trial sites.
Data presented in Chlorantraniliprole 200 g/L SC Registration Report, Part B, Section 6, DuPont-39449 CEU, Point IIIA 10.4 and IIIA 10.5 of this OECD dossier review an extensive data set generated to study the effect of Chlorantraniliprole 200 g/L SC on honeybees (acute oral and laboratory studies and semi-field tunnel tests with Phacelia and wheat). It is concluded that chlorantraniliprole demonstrates low intrinsic toxicity for honey bees and should be safe to honey bees for the proposed use. These sections of the dossier also indicate the lack of harmful effects in laboratory and field studies on a number of key parasitoid and predator species belonging to the Hymenoptera (Braconidae, Aphidiinae), Coleoptera (Coccinellidae), Neuroptera (Chrysopidae), Heteroptera (Anthocoridae) and Acari (Phytoseiidae).
On the basis of the available extensive data generated for the effect of Chlorantraniliprole 200 g/L SC on non-target arthropods, it can be concluded that the insecticide generally demonstrated low intrinsic toxicity for non-target arthropods and should be safe to natural populations under practical use conditions. High margins of safety have been proven for the two indicator species, Aphidius rhopalosiphi and Typhlodromus pyri, which has been further confirmed in two additional field trials with Typhlodromus pyri and other predatory mite species. Safety was also proven to Chrysoperla carnea and Orius laevigatus species at up to 120 g a.s./ha of Chlorantraniliprole 200 g/L SC under laboratory conditions. Exposure of the sensitive life stages (larvae) of both Coccinella septempunctata and Episyrphus balteatus species to field-aged spray deposits on apple leaves sprayed twice with the maximum application rates of 60 g a.s./ha of Chlorantraniliprole 200 g/L SC and a minimum interval of 7 days was proven to be safe to both insects after a field-ageing period of 42 to 78 days following the 2nd application.
In conclusion, Chlorantraniliprole 200 g/L SC shows good field safety to bees and other beneficial arthropods. The application of the product to the proposed label crops should have no significant lasting negative effect on beneficial organisms residing in the vicinity of the targeted spray area.

For further information see DuPont 21346 EU, section IIIA 6.2.4.

Compatibility with current management practices including IPM

Not applicable

Summary and conclusion

Insecticide CLOROL 200 SC has demonstrated good crop tolerance to potato, maize, apple and winter oilseed rape. Therefore concluded that CLOROL 200 SC is safe usage at proposed rate and this support the label claim for the use in maize, potato, apple and winter oilseed rape.
Undesirable effects are not expected on succeeding crops, adjacent crop and beneficial organisms.
Use of CLOROL 200 SC according to the proposed GAP does not represent a hazard to rotational crops and does not justify a specific labelling. CLOROL 200 SC is not persistent in soil nor is it taken up by succeeding crops.

3.6. Other/special studies

Not applicable

3.7. List of test facilities including the corresponding certificates

Table 3.5-5: List of test facilities

Test facility	Address	Certificate (Yes or No)
A.T Sp. z o.o.	ul. Przemysłowa 3, 88-300 Mogilno, Poland	Yes
Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department	ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Yes
SynTech Research Poland Sp. z o.o.	Jagiellonska 69/1 85-027 Bydgoszcz, Poland	Yes

Appendix 1 Lists of data considered in support of the evaluation

List of data submitted by the applicant and relied on

Data point	Author(s)	Year	**Title** **Company Report No.** **Source (where different from company)** **GLP or GEP status** **Published or not**	**Data Vertebrate study Y/N**	**Owner**
KCP 6.2 KCP 6.4	Kamil Wołowicz	2023	Efficacy evaluation of insecticides CLOROL 200 SC when applied in maize control of Ostrinia nubilalis. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2023/029/KK GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in maize Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/K/28/Zł/01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in maize Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/K/28/Mr/02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in maize Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/K/28/Ma/03 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in maize Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/K/28/Jan/04 GEP - yes	N	PUH Chemirol Sp. z o.o.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Vertebrate study Y/N	Owner
			Unpublished		
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in maize Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/K/28/Jbł/05 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Kamil Wołowicz	2023	Efficacy evaluation of insecticides CLOROL 200 SC when applied in potato to control of Leptinotarsa decemlineata. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2023/027/ZZ GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Kamil Wołowicz	2023	Efficacy evaluation of insecticides CLOROL 200 SC when applied in potato to control of Leptinotarsa decemlineata. Poland, 2023 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2023/028/ZZ GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in potato cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/Z/28/Zł/01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in potato cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/Z/28/Gr/02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in potato	N	PUH Chemirol

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
			cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/Z/28/Br/03 GEP - yes Unpublished		Sp. z o.o.
KCP 6.2 KCP 6.4	Monika Bartos-Spychała	2023	The studies on the efficacy of CLOROL 200 SC insecticide in the pests control in potato cultivation Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/Z/28/Pr/04 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Artur Strzeliński	2023	The evaluation efficacy of CLOROL 200 SC in the control on insecticides in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/RO/28/Pr/01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Artur Strzeliński	2023	The evaluation efficacy of CLOROL 200 SC in the control on insecticides in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/RO/28/Zł/02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1072-01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz	N	PUH Chemirol Sp. z o.o.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
			Poland Report no.: EU-23-1072-02 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	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1072-03 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1072-04 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1073-01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1073-02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1073-03 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o.	N	PUH Chemirol Sp. z o.o.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
KCP 6.4.2 KCP 6.4.3			69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1073-04 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	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1075-01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1075-02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1075-03 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Grzegorz Piotrowski	2024	Efficacy and selectivity of CLOROL 200 SC (chlorantraniliprole 200 g/L) in apple cultivation. SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland Report no.: EU-23-1075-04 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Cydia pomonella) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Pr/01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Cydia pomonella) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Pr/02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Cydia pomonella) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Sz/03 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Tortricidae) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Pr/04 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Tortricidae) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Pr/05 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Tortricidae) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Sz/06 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Tortricidae) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Pr/07 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Tortricidae) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Pr/08 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Marcin Zachwieja	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Tortricidae) control in apple trees Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland Report no.: AI/24/Jbł/7/Sz/09 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Artur Strzeliński	2023	The evaluation efficacy of CLOROL 200 SC in the control on insecticides in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/RO/28/Pr/01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6.2 KCP 6.4	Artur Strzeliński	2023	The evaluation efficacy of CLOROL 200 SC in the control on insecticides in the cultivation on winter rape. Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/23/RO/28/Zł/02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6	Joanna Guzińska	2024	Efficacy evaluation of insecticide CLOROL 200 SC	N	PUH

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3			when applied in winter oilseed rape to control of Ceutorhynchus assimilis. Poland, 2024 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2024/003/RZO GEP - yes Unpublished		Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2024	Efficacy evaluation of insecticide CLOROL 200 SC when applied in winter oilseed rape to control of Ceutorhynchus assimilis. Poland, 2024 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2024/004/RZO GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2024	Efficacy evaluation of insecticide CLOROL 200 SC when applied in winter oilseed rape to control of Ceutorhynchus assimilis. Poland, 2024 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2024/005/RZO GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2024	Efficacy evaluation of insecticide CLOROL 200 SC when applied in winter oilseed rape to control of Dasineura brassicae. Poland, 2024 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2024/006/RZO GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2024	Efficacy evaluation of insecticide CLOROL 200 SC when applied in winter oilseed rape to control of Dasineura brassicae. Poland, 2024 A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland Report no.: A.T/2024/007/RZO GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Joanna Guzińska	2024	Efficacy evaluation of insecticide CLOROL 200 SC when applied in winter oilseed rape to control of Dasineura brassicae. Poland, 2024 A.T Sp. z o.o. ul. Przemysłowa 3	N	PUH Chemirol Sp. z o.o.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
			88-300 Mogilno, Poland Report no.: A.T/2024/008/RZO GEP - yes Unpublished		
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Monika Bartos-Spychała	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Ceutorhynchus assimilis) control in winter rape cultivation Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/24/RO/1/Pr/01 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Monika Bartos-Spychała	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Ceutorhynchus assimilis) control in winter rape cultivation Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/24/RO/1/Zł/02 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Monika Bartos-Spychała	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Ceutorhynchus assimilis) control in winter rape cultivation Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/24/RO/1/Br/03 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Monika Bartos-Spychała	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Dasineura brassicae) control in winter rape cultivation Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/24/RO/1/Ma/04 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Monika Bartos-Spychała	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Dasineura brassicae) control in winter rape cultivation Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań Report no.: AI/24/RO/1/JW/05 GEP - yes Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6 KCP 6.2 KCP 6.4 KCP 6.4.1 KCP 6.4.2 KCP 6.4.3	Monika Bartos-Spychała	2024	The studies on the efficacy of CLOROL 200 SC insecticide in the pests (Dasineura brassicae) control in winter rape cultivation Poznań University of Life Sciences, Research Center Złotniki, ul. Wojska Polskiego 28, 60-637 Poznań	N	PUH Chemirol Sp. z o.o.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data Verte-brate study Y/N	Owner
			Report no.: AI/24/RO/1/Da/06 GEP - yes Unpublished		
KCP 6.5.2	Łata E.	2023	Determination of physicochemical properties of CLOROL 200 SC before and after accelerated storage test. ICB/132/2023 ICBpharma GLP Unpublished	N	PUH Chemirol Sp. z o.o.
KCP 6		2014	Analiza raportu rejestracyjnego środka Coragen 200 SC ZEiO/P-17/2014 Applicant: DuPont Poland Sp. z o.o. Evaluator IOR – PIB Poznań	N	DuPont Poland Sp. z o.o.
KCP 6		2018	REGISTRATION REPORT PART B SECTION 7: EFFICACY DATA AND INFORMATION National Addendum Poland Document Number - DuPont-39450 CEU, Revision No. 1 Applicant Cheminova Sp. z o.o. Evaluator Merit Mark	N	Cheminova Sp. z o.o.

Appendix 2 Additional information provided by the applicant

Not applicable

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

Maize

Test report/ research number (1)	Trial location (2); Crop cultivar; F/G (3); N/A (4)	Testing Unit (5)	Test method (6); Plot size; Sample size (7)	Treatment			
				Growth stage (8)	Interval	Total number	Spray volume (L/ha)
A.T/2023/029/KK	Grzebienisko/ Poland maize/ DKC 3939 F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	PP 1/13(3) 3.0 x 10.0 = 30.0 m^2	BBCH 59-69	n/a	1	300 L/ha
AI/23/K/28/Zl/01	Zotniki /Poland maize/ FARMFIRE F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	PP 1/13(3) 3.0 x 10.0 = 30.0 m^2	BBCH 62-63	n/a	1	400 L/ha
AI/23/K/28/Mr/02	Mrowino /Poland maize/ Garanto F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	PP 1/13(3) 3.0 x 10.0 = 30.0 m^2	BBCH 59-60	n/a	1	400 L/ha
AI/23/K/28/Ma/03	Machary /Poland maize/ LG31240 F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	PP 1/13(3) 3.0 x 10.0 = 30.0 m^2	BBCH 59-61	n/a	1	400 L/ha
AI/23/K/28/Jan/04	Janowiec Wielkopolski /Poland maize/ FARMODENA F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	PP 1/13(3) 3.0 x 10.0 = 30.0 m^2	BBCH 58-59	n/a	1	400 L/ha
AI/23/K/28/Jbl/05	Jabłowo Pałuckie /Poland maize/ Amavit F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	PP 1/13(3) 3.0 x 10.0 = 30.0 m^2	BBCH 67-69	n/a	1	400 L/ha

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

Potato

Test report/ research number (1)	Trial location (2); Crop cultivar; F/G (3); N/A (4)	Testing Unit (5)	Test method (6); Plot size; Sample size (7)	Treatment			
				Growth stage (8)	Interval	Total number	Spray volume (L/ha)
A.T/2023/027/ZZ	Rakojady /Poland potato/ Partner F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	PP 1/12(4) 2.5 x 10.0 = 25.0 m^2	BBCH 33-37 BBCH 39-51	10	2	200 L/ha
A.T/2023/028/ZZ	Melanowo/Poland potato/ Vineta F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/12(4) 2.5 x 10.0 = 25.0 m^2	BBCH 33-37 BBCH 39-55	9	2	300 L/ha
AI/23/Z/28/Zl/01	Złotnki/Poland potato/ Vineta F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/12(4) 3.0 x 10.0 = 30.0 m^2	BBCH 55-59 BBCH 73-74	15	2	200 L/ha
AI/23/Z/28/Gr/02	Gorzyń/Poland potato/ Toscana F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/12(4) 2.8 x 10.0 = 28.0 m^2	BBCH 66-67 BBCH 69-70	10	2	200 L/ha
AI/23/Z/28/Br/03	Brody/Poland potato/ DENAR F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/12(4) 2.5 x 12.0 = 30.0 m^2	BBCH 55-59 BBCH 75-79	15	2	230 L/ha
AI/23/Z/28/Pr/04	Przybroda/Poland potato/ Lord F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/12(4) 3.0 x 10.0 = 30.0 m^2	BBCH 51-55 BBCH 71-73	10	2	200 L/ha

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

Apple

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 (days)	Total number	Spray volume (L/ha)
EU-23-1072-01	Ludwików / Poland apple / Ligol F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/7(4) 3,6x11=39.6m^2	A: BBCH 76-78 B: BBCH 77-79	14	2	500
EU-23-1072-02	Nowy Żylin / Poland apple / Gloster F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/7(4) 4x8,5=34m^2	A: BBCH 75-77 B: BBCH 77-79	14	2	500
EU-23-1072-03	Wysoki Kosciol / Poland	SynTech Research Poland Sp. z o.o.	EPPO PP 1/7(4)	A: BBCH 71-73	14	2	400

	apple / Antonówka F N	69/1 Jagiellonska 85-027 Bydgoszcz Poland	3,8x8=30,4m²	B: BBCH 72-75			
EU-23-1072-04	Bark / Poland apple / Cortland F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/7(4) 3,5x8=28m²	A: BBCH 72-73 B: BBCH 73-74	14	2	600
EU-23-1073-01	Ludwików / Poland apple / Jonagold F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 4x8=32m²	A: BBCH 56-59 B: BBCH	14	2	500
EU-23-1073-02	Nowy Żylin / Poland apple / Gala F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 3,5x12=42m²	A: BBCH 53-56 B: BBCH 56-59	14	2	500
EU-23-1073-03	Bedkowo / Poland apple / Starking F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 4,2x8=33,6m²	A: BBCH 56-57 B: BBCH 59-65	12	2	400
EU-23-1073-04	Żędowo / Poland apple / Gloster F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 3x8=24m²	A: BBCH 56 B: BBCH 63-65	14	2	700
EU-23-1075-01	Ludwików / Poland apple / Golden Delicious F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 3,5x11=38,5m²	A: BBCH 76-78 B: BBCH 77-79	14	2	500
EU-23-1075-02	Nowy Żylin / Po- land apple / Idared F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 4x12=48m²	A: BBCH 75-77 B: BBCH 76-78	14	2	500
EU-23-1075-03	Bark / Poland apple / Cortland F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 4x9=36m²	A: BBCH 71-72 B: BBCH 72-74	17	2	600
EU-23-1075-04	Stefanówka / Poland apple / Elise F N	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	EPPO PP 1/6(3) 4x10=40m²	A: BBCH 71-72 B: BBCH 73-74	14	2	600
AI/24/Jbł/7/Pr/01	Przybroda / Poland apple / Gala Must F N	Poznań University of Life Sciences Research Center Złot- niki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/7(4) 4x4,8=19,2m²	A: BBCH 72 B: BBCH 74	18	2	500
AI/24/Jbł/7/Pr/02	Przybroda / Poland apple / Ligol F N	Poznań University of Life Sciences Research Center Złot- niki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/7(4) 4x4,8=19,2m²	A: BBCH 72 B: BBCH 74	18	2	500
AI/24/Jbł/7/Sz/03	Szreniawa / Poland apple / Fuji F N	Poznań University of Life Sciences Research Center Złot- niki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/7(4) 3,5x4=14m²	A: BBCH 72 B: BBCH 74	20	2	500
AI/24/Jbł/7/Pr/04	Przybroda / Poland apple / Gala Must F N	Poznań University of Life Sciences Research Center Złot- niki Wojska Polskiego 28 60-637 Poznań	EPPO PP 1/6(3) 4x4,8=19,2m²	A: BBCH 72 B: BBCH 74	18	2	500

		Poland					
AI/24/Jbł/7/Pr/05	Przybroda / Poland apple / Ligol F N	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/6(3) 4x4,8=19,2m^2	A: BBCH 72 B: BBCH 74	18	2	500
AI/24/Jbł/7/Sz/06	Szreniawa / Poland apple / Fuji F N	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/6(3) 3,5x4=14m^2	A: BBCH 72 B: BBCH 74	20	2	500
AI/24/Jbł/7/Pr/07	Przybroda / Poland apple / Szampion F N	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/6(3) 4x4,8=19,2m^2	A: BBCH 56 B: BBCH 67	18	2	500
AI/24/Jbł/7/Pr/08	Przybroda / Poland apple / Topaz F N	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/6(3) 4x4,8=19,2m^2	A: BBCH 56 B: BBCH 67	20	2	500
AI/24/Jbł/7/Sz/09	Szreniawa / Poland apple / Idared F N	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	EPPO PP 1/6(3) 3,5x4=14m^2	A: BBCH 56 B: BBCH 67	15	2	500

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

Winter oilseed rape – one application

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)
AI/23/RO/28/Pr/01	Przybroda/ Poland winter oilseed rape/ Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/107(3) PP 1/220(1) 2.0 x 12.0 = 24.0 m2	BBCH 63-65	n/a	1	200 L/ha
AI/23/RO/28/Zl/02	Złotniki / Poland winter oilseed rape/ Bradley F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/107(3) PP 1/220(1) 2.0 x 10.0 = 20.0 m2	BBCH 65-69	n/a	1	200 L/ha
A.T/2024/003/RZO	Laskownica Mała / Poland winter oilseed rape/ Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	PP 1/107(3) 5.0 m x 5.0 m = 25.0 m2	BBCH 62-64	n/a	1	200 L/ha
A.T/2024/004/RZO	Lusówko / Poland winter oilseed rape/ Dron F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	PP 1/107(3) 5.0 m x 6.0 m = 30.0 m2	BBCH 62-64	n/a	1	300 L/ha
A.T/2024/005/RZO	Lichnowy / Poland winter oilseed rape/ Onca F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	PP 1/107(3) 5.0 m x 5.5 m = 27.5 m2	BBCH 61-63	n/a	1	200 L/ha
A.T/2024/006/RZO	Laskownica Mała / Poland winter oilseed rape/ Kuga F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	PP 1/220(1) 5.0 m x 5.0 m = 25.0 m2	BBCH 64-67	n/a	1	300 L/ha
A.T/2024/007/RZO	Lusówko / Poland winter oilseed rape/ Dron F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	PP 1/220(1) 5.0 m x 6.0 m = 30.0 m2	BBCH 63-64	n/a	1	200 L/ha
A.T/2024/008/RZO	Lichnowy / Poland winter oilseed rape/ Onca F N	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	PP 1/220(1) 5.0 m x 5.5 m = 27.5 m2	BBCH 65-67	n/a	1	200 L/ha
AI/24/RO/1/Pr/01	Przybroda / Poland winter oilseed rape/ Harry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/107(3) 2.5 m x 10.0 m = 25.0 m2	BBCH 65-67	n/a	1	250 L/ha
AI/24/RO/1/Zl/02	Suchy Las / Poland winter oilseed rape/ Architect F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/220(1) 2.5 m x 10.0 m = 25.0 m2	BBCH 67-69	n/a	1	250 L/ha
AI/24/RO/1/Br/03	Lwówek / Poland winter oilseed rape/ Ambassador F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department;	PP 1/107(3) 2.5 m x 9.0 m = 22.5 m2	BBCH 69-71	n/a	1	230 L/ha

		ul. Wojska Polskiego 28, 60-637 Poznań, Poland					
AI/24/RO/1/Ma/04	Machary / Poland winter oilseed rape/ Graf F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/220(1) 3.0 m x 10.0 m = 30.0 m2	BBCH 69	n/a	1	250 L/ha
AI/24/RO/1/JW/05	Janowiec Wielko-polski / Poland winter oilseed rape/ Berny F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/220(1) 2.0 m x 12.5 m = 25.0 m2	BBCH 65-69	n/a	1	200 L/ha
AI/24/RO/1/Da/06	Dalekie / Poland winter oilseed rape/ Chrobry F N	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	PP 1/220(1) 2.5 m x 10.0 m = 25.0 m2	BBCH 69	n/a	1	200 L/ha

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

Maize

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m^2	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [L/ha]	name	dose [L /ha]	
A.T/2023/029/KK	maize/ DKC 3939 PYRUNU	PYRUNU 31.4	PYRUNU MIXED 100	CLOROL 200 SC	0.125	Coragen 200 SC	0.125	Application date: 24.07.2023 Assessment date: 24.07.2023 07.08.2023 21.08.2023 04.09.2023 27.09.2023 09.10.2023
AI/23/K/28/Zl/01	maize/ FARMFIRE PYRUNU	PYRUNU 2.3	PYRUNU LARVA 70 PYRUNU EGG 20 PYRUNU ADULT 10	CLOROL 200 SC	0.125	Coragen 200 SC	0.125	Application date: 21.07.2023 Assessment date: 28.07.2023 26.09.2023 16.10.2023 02.11.2023 15.11.2023
AI/23/K/28/Mr/02	maize/ Garanto PYRUNU	PYRUNU 2.0	PYRUNU LARVA 80 PYRUNU EGG 10 PYRUNU ADULT 10	CLOROL 200 SC	0.125	Coragen 200 SC	0.125	Application date: 18.07.2023 Assessment date: 25.07.2023 06.09.2023 18.10.2023 09.10.2023 06.11.2023

AI/23/K/28/Ma/03	maize/ LG31240 PYRUNU	PYRUNU 4.7	PYRUNU LARVA 75 PYRUNU EGG 10 PYRUNU ADULT 15	CLOROL 200 SC	0.125	Coragen 200 SC	0.125	Application date: 21.07.2023 Assessment date: 28.07.2023 21.09.2023 06.10.2023 13.10.2023
AI/23/K/28/Jan/04	maize/ FARMODE-NA PYRUNU	PYRUNU 2.1	PYRUNU LARVA 70 PYRUNU EGG 15 PYRUNU ADULT 15	CLOROL 200 SC	0.125	Coragen 200 SC	0.125	Application date: 18.07.2023 Assessment date: 25.07.2023 04.09.2023 12.10.2023 02.11.2023 14.11.2023
AI/23/K/28/Jbl/05	maize/ Amavit PYRUNU	PYRUNU 1.1	PYRUNU LARVA 80 PYRUNU EGG 15 PYRUNU ADULT 5	CLOROL 200 SC	0.125	Coragen 200 SC	0.125	Application date: 03.08.2023 Assessment date: 10.08.2023 29.09.2023 25.10.2023

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

Potato

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [L/ha]	name	dose [L /ha]	
A.T/2023/027/ZZ	potato/ Partner LPTNDE	LPTNDE 9.2	A: LPTNDE MIXED 100 B: LPTNDE MIXED 100	CLOROL 200 SC CLOROL 200 SC	0.05 0.0625	Coragen 200 SC Coragen 200 SC	0.05 0.0625	Application date: 14.06.2023 24.06.2023 Assessment date: 14.06.2023 16.06.2023 24.06.2023 26.06.2023 01.07.2023 10.07.2023 01.09.2023
A.T/2023/028/ZZ	potato/ Vineta LPTNDE	LPTNDE 14.8	A: LPTNDE MIXED 100 B: LPTNDE MIXED 100	CLOROL 200 SC CLOROL 200 SC	0.05 0.0625	Coragen 200 SC Coragen 200 SC	0.05 0.0625	Application date: 15.06.2023 26.06.2023 Assessment date: 15.06.2023 17.06.2023 26.06.2023 28.06.2023 05.07.2023 04.09.2023 11.09.2023
AI/23/Z/28/ZI/01	potato/ Vineta LPTNDE	LPTNDE 66.3	A: LPTNDE LARVA 70; EGG 10; ADULT 20 B: LPTNDE LARVA 80; EGG 5; ADULT 15	CLOROL 200 SC CLOROL 200 SC	0.05 0.0625	Coragen 200 SC Coragen 200 SC	0.05 0.0625	Application date: 29.06.2023 14.07.2023 Assessment date: 29.06.2023 01.07.2023 07.07.2023 15.07.2023 05.09.2023 11.09.2023

AI/23/Z/28/Gr/02	potato/ Toscana LPTNDE	LPTNDE 86.1	A: LPTNDE LARVA 60; EGG 10; ADULT 30 B: LPTNDE LARVA 70; EGG 10; ADULT 20	CLOROL 200 SC CLOROL 200 SC	0.05 0.0625	Coragen 200 SC Coragen 200 SC	0.05 0.0625	Application date: 26.06.2023 06.07.2023 Assessment date: 26.06.2023 28.06.2023 03.07.2023 08.07.2023 03.10.2023
AI/23/Z/28/Br/03	potato/ DENAR LPTNDE	LPTNDE 72.0	A: LPTNDE LARVA 60; EGG 15; ADULT 25 B: LPTNDE LARVA 75; EGG 5; ADULT 20	CLOROL 200 SC CLOROL 200 SC	0.05 0.0625	Coragen 200 SC Coragen 200 SC	0.05 0.0625	Application date: 26.06.2023 11.07.2023 Assessment date: 26.06.2023 28.06.2023 05.07.2023 13.07.2023 12.09.2023
AI/23/Z/28/Pr/04	potato/ Lord LPTNDE	LPTNDE 132.0	A: LPTNDE LARVA 60; EGG 20; ADULT 20 B: LPTNDE LARVA 70; EGG 10; ADULT 20	CLOROL 200 SC CLOROL 200 SC	0.05 0.0625	Coragen 200 SC Coragen 200 SC	0.05 0.0625	Application date: 10.06.2023 20.06.2023 Assessment date: 10.06.2023 12.06.2023 17.06.2023 22.06.2023 29.09.2023

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

Apple

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				Name	Dose [ml/ha]	Name	Dose [ml/ha]	
EU-23-1072-01	apple / Ligol CARPRO	Fruit CARPRO 0	CARPRO ADULT 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 10.08.2024 B: 24.08.2024 Assessment date: 10.08.2024 17.08.2024 24.08.2024 31.08.2024 07.09.2024 14.09.2024 21.09.2024 28.09.2024 05.10.2024 07.10.2024 08.10.2024
EU-23-1072-02	apple / Gloster CARPRO	Fruit CARPRO 0	CARPRO ADULT 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 10.08.2024 B: 24.08.2024 Assessment date: 10.08.2024 17.08.2024 24.08.2024 31.08.2024 07.09.2024 14.09.2024 21.09.2024 28.09.2024 05.10.2024 07.10.2024 08.10.2024
EU-23-1072-03	apple / Antonówka CARPRO	Fruit CARPRO 0,5	A: CARPRO ADULT 50 CARPRO EGG 50 B: CARPRO LARVA 50 CARPRO ADULT 30	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 10.05.2024 B: 24.05.2024 Assessment date: 10.05.2024 24.05.2024 10.06.2024 23.09.2024

			CARPRO EGG 20					26.09.2024
EU-23-1072-04	apple / Cortland CARPRO	Fruit CARPRO 3.8	A: CARPRO MIXED 100 B: CARPRO MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 10.06.2024 B: 24.06.2024 Assessment date: 24.06.2024 10.07.2024 24.09.2024
EU-23-1073-01	apple / Jonagold CAPURE	Fruit CAPURE 7.0	A: CARPRO MIXED 100 B: CAPURE MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 15.04.2024 B: 29.04.2024 Assessment date: 15.04.2024 13.05.2024 13.06.2024 13.07.2024 13.08.2024 13.09.2024 09.10.2024
EU-23-1073-02	apple / Gala CAPURE	Fruit CAPURE 3.8	A: CARPRO MIXED 100 B: CAPURE MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 15.04.2024 B: 29.04.2024 Assessment date: 16.04.2024 14.05.2024 14.06.2024 13.07.2024 14.08.2024 14.09.2024 09.10.2024
EU-23-1073-03	apple / Starking 1TORTF	Shoot Fruit 1TORTF 8.8	A: 1TORTF MIXED 100 B: 1TORTF MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 18.04.2024 B: 30.04.2024 Assessment date: 17.05.2024 30.05.2024 29.08.2024

EU-23-1073-04	apple / Gloster 1TORTF	Shoot Fruit A: 1TORTF 56,5 B: 1TORTF 69,3	A: 1TORTF MIXED 100 B: 1TORTF MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 15.04.2024 B: 29.04.2024 Assessment date: 13.05.2024 27.05.2024 27.09.2024
EU-23-1075-01	apple / Golden Delicious CARPRO	Fruit CARPRO 5.0	A: CARPRO MIXED 100 B: CARPRO MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 10.08.2024 B: 24.08.2024 Assessment date: 10.08.2024 17.08.2024 24.08.2024 31.08.2024 07.09.2024 21.09.2024 07.10.2024 08.10.2024
EU-23-1075-02	apple / Idared CARPRO	Fruit CARPRO 5.0	A: CARPRO MIXED 100 B: CARPRO MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 10.08.2024 B: 24.08.2024 Assessment date: 10.08.2024 17.08.2024 24.08.2024 31.08.2024 07.09.2024 21.09.2024 07.10.2024 08.10.2024
EU-23-1075-03	apple / Cortland 1TORTF	Fruit 1TORTF 34.3	A: CARPRO MIXED 100 B: CARPRO MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 24.05.2024 B: 10.06.2024 Assessment date: 24.05.2024 10.06.2024 01.07.2024 24.07.2024 26.09.2024

EU-23-1075-04	apple / Elise 1TORTF	Fruit 1TORTF 8.8	A: CARPRO MIXED 100 B: CARPRO MIXED 100	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 10.05.2024 B: 24.05.2024 Assessment date: 10.05.2024 17.05.2024 24.05.2024 31.05.2024 07.06.2024 14.10.2024
AI/24/Jbl/7/Pr/01	apple / Gala Must CARPRO	Fruit CARPRO 11.5	A: CARPRO ADULT 100 B: CARPRO ADULT 80 LARVA 20	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 17.05.2024 B: 04.06.2024 Assessment date: 24.05.2024 31.05.2024 11.06.2024 19.06.2024 07.08.2024 22.08.2024
AI/24/Jbl/7/Pr/02	apple / Ligol CARPRO	Fruit CARPRO 8.5	A: CARPRO ADULT 100 B: CARPRO ADULT 90 LARVA 10	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 17.05.2024 B: 04.06.2024 Assessment date: 24.05.2024 31.05.2024 11.06.2024 19.06.2024 07.08.2024 22.08.2024
AI/24/Jbl/7/Sz/03	apple / Fuji CARPRO	Fruit CARPRO 22.0	A: CARPRO ADULT 100 B: CARPRO ADULT 70 LARVA 30	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 14.05.2024 B: 03.06.2024 Assessment date: 21.05.2024 28.05.2024 10.06.2024 19.06.2024 03.07.2024 07.08.2024 16.08.2024

AI/24/Jbl/7/Pr/04	apple / Gala Must 1TORTF	Fruit 1TORTF 9.8	A: 1TORTF ADULT 100 B: 1TORTF ADULT 80 LARVA 20	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 17.05.2024 B: 04.06.2024 Assessment date: 24.05.2024 31.05.2024 11.06.2024 19.06.2024 03.07.2024 07.08.2024 22.08.2024
AI/24/Jbl/7/Pr/05	apple / Ligol 1TORTF	Fruit 1TORTF 8.0	A: 1TORTF ADULT 100 B: 1TORTF ADULT 90 LARVA 10	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 17.05.2024 B: 04.06.2024 Assessment date: 24.05.2024 31.05.2024 11.06.2024 19.06.2024 03.07.2024 07.08.2024 29.08.2024
AI/24/Jbl/7/Sz/06	apple / Fuji 1TORTF	Fruit 1TORTF 7.8	A: 1TORTF ADULT 100 B: 1TORTF ADULT 80 LARVA 20	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 14.05.2024 B: 03.06.2024 Assessment date: 21.05.2024 28.05.2024 04.06.2026 11.06.2024 08.08.2024 16.09.2024
AI/24/Jbl/7/Pr/07	apple / Szampion 1TORTF	Fruit 1TORTF 7.0	A: 1TORTF ADULT 100 B: 1TORTF ADULT 90 LARVA 10	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 16.04.2024 B: 06.05.2024 Assessment date: 23.04.2024 30.04.2024 14.05.2024 21.05.2024 05.06.2024 10.07.2024 10.09.2024

AI/24/Jbl/7/Pr/08	apple / Topaz 1TORTF	Fruit 1TORTF 8.0	A: 1TORTF ADULT 100 B: 1TORTF ADULT 90 LARVA 10	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 16.04.2024 B: 06.05.2024 Assessment date: 23.04.2024 30.04.2024 14.05.2024 21.05.2024 05.06.2024 10.07.2024 29.08.2024 10.09.2024
AI/24/Jbl/7/Sz/09	apple / Idared 1TORTF	Fruit 1TORTF 9.3	A: 1TORTF ADULT 100 B: 1TORTF ADULT 80 LARVA 20	1. CLOROL 200 SC 2. CLOROL 200 SC 3. CLOROL 200 SC 4. CLOROL 200 SC 5. CLOROL 200 SC	75 100 125 150 175	Coragen 200 SC	175	Application date: A: 12.04.2024 B: 27.04.2024 Assessment date: 19.04.2024 26.04.2024 27.05.2024 11.05.2024 25.05.2024 22.06.2024 16.09.2024

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

Winter oilseed rape – one application

Test report (1)	Crop/ cultivar Harmful organism/ weed species or intended use	Assessed part and variable (2) no / m²	Untreated BBCH (during application)	Efficacy treatments (3)				Remarks (4)
				Product		Standard (s)		
				name	Dose [mL/ha]	name	dose [mL /ha]	
AI/23/RO/28/Pr/01	winter oilseed rape/ Harry CEUPTL DASYBR	CEUPTL 22.0 DASYBR 21.3	CEUPTL MIXED 100 DASYBR MIXED 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 08.05.2023 Assessment date: 15.05.2023 22.05.2023 05.06.2023 06.07.2023
AI/23/RO/28/Zl/02	winter oilseed rape/ Bradley CEUPTL DASYBR	CEUPTL 34.0 DASYBR 25.8	CEUPTL MIXED 100 DASYBR MIXED 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 25.05.2023 Assessment date: 01.06.2023 08.06.2023 22.06.2023 07.07.2023
A.T/2024/003/RZO	winter oilseed rape/ Kuga CEUTPL	CEUTPL 46.0	CEUTPL ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 26.04.2024 Assessment date: 26.04.2024 27.04.2024 02.05.2024 20.05.2024 15.07.2024 30.07.2024
A.T/2024/004/RZO	winter oilseed rape/ Dron CEUTPL	CEUTPL 41.3	CEUTPL ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 15.04.2024 Assessment date: 15.04.2024 17.04.2024 21.04.2024 10.05.2024 10.07.2024 24.07.2024

A.T/2024/005/RZO	winter oilseed rape/ Onca CEUTPL	CEUTPL72.3	CEUTPL ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 29.04.2024 Assessment date: 29.04.2024 30.04.2024 06.05.2024 22.05.2024 30.07.2024 30.08.2024
A.T/2024/006/RZO	winter oilseed rape/ Kuga DASYBR	DASYBR 12.8	DASYBR LARVA 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 29.04.2024 Assessment date: 29.04.2024 04.05.2024 15.05.2024 15.07.2024 29.07.2024
A.T/2024/007/RZO	winter oilseed rape/ Dron DASYBR	DASYBR 19.0	DASYBR LARVA 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 24.04.2024 Assessment date: 24.04.2024 30.04.2024 10.05.2024 10.07.2024 29.07.2024
A.T/2024/008/RZO	winter oilseed rape/ Onca DASYBR	DASYBR 10.5	DASYBR LARVA 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 08.05.2024 Assessment date: 08.05.2024 14.05.2024 22.05.2024 30.07.2024 28.08.2024
AI/24/RO/1/Pr/01	winter oilseed rape/ Harry CEUTPL	CEUTPL32.4	CEUTPL ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 07.05.2024 Assessment date: 14.05.2024 21.05.2024 11.06.2024

								09.07.2024 29.08.2024
AI/24/RO/1/ZI/02	winter oilseed rape/ Architect DASYBR	DASYBR 17.3	DASYBR ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 08.05.2024 Assessment date: 15.05.2024 22.05.2024 07.06.2024 03.07.2024 21.08.2024
AI/24/RO/1/Br/03	winter oilseed rape/ Ambassador CEUTPL	CEUPTL 24.0	CEUTPL ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 29.04.2024 Assessment date: 06.05.2024 13.05.2024 30.05.2024 07.06.2024 08.07.2024 13.08.2024
AI/24/RO/1/Ma/04	winter oilseed rape/ Graf DASYBR	DASYBR 31.8	DASYBR ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 13.05.2024 Assessment date: 20.05.2024 27.05.2024 14.06.2024 09.07.2024 12.08.2024 29.08.2024
AI/24/RO/1/JW/05	winter oilseed rape/ Berny DASYBR	DASYBR 29.0	DASYBR ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 06.05.2024 Assessment date: 13.05.2024 20.05.2024 10.06.2024 05.07.2024 19.08.2024

AI/24/RO/1/Da/06	winter oilseed rape/ Chrobry DASYBR	DASYBR 13.0	DASYBR ADULT 100	CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC CLOROL 200 SC	75 100 125 150 175	Carnadine 200 SC	250	Application date: 14.05.2024 Assessment date: 21.05.2024 28.05.2024 18.06.2024 10.07.2024 29.08.2024

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

Appendix 5 Summary of detailed data on insecticide effectiveness trials

Maize

Table 1. The efficacy of CLOROL 200 SC in control of PYRUNU

Type of assessment			PYRUNU - larva								
Report code			**A.T/2023/029/KK**	**AI/23/K/28/Zł/01**	**AI/23/K/28/Mr/02**	**AI/23/K/28/Ma/03**	**AI/23/K/28/Jan/04**	**AI/23/K/28/Jbl/05**			
Assessment date			04.09.2023	26.09.2023	06.09.2023	21.09.2023	04.09.2023	29.09.2023			
Days after application DA-A			42 DA-A	67 DA-A	50 DA-A	62 DA-A	48 DA-A	57 DA-A	**Average**	**Min.**	**Max.**
Pest infestation			31.4	2.3	2	4.7	2.1	1.1	7.27	1.10	31.40
No.	Name	Rate (L/ha)									
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CLOROL 200 SC	0.125	96.60	87.50	71.40	69.70	80.00	87.50	82.12	69.70	96.60
3	Coragen 200 SC	0.125	94.80	68.80	64.30	75.80	66.70	87.50	76.32	64.30	94.80
LSD(P=.05)			5.81	1.28	0.78	1.79	1.14	0.610			

Potato

Table 2. The efficacy of CLOROL 200 SC in control of LPTNDE – larva

Type of assessment			LPTNDE								
Report code			**A.T/2023/027/ZZ**	**A.T/2023/028/ZZ**	**AI/23/Z/28/Zl/01**	**AI/23/Z/28/Gr/02**	**AI/23/Z/28/Br/03**	**AI/23/Z/28/Pr/04**			
Assessment date			26.06.2023	28.06.2023	15.07.2023	08.07.2023	13.07.2023	22.06.2023			
Days after application DA-A			2 DA-B	2 DA-B	2 DA-B	2 DA-B	2 DA-B	2 DA-B			
Part assessed			LARVA	LARVA	LARVA	LARVA	LARVA	LARVA	**Average**	**Min.**	**Max.**
Number of pest			33.3	53	13.5	7.8	25	13.3	24.32	7.80	53.00
No.	Name	Rate (L/ha)									
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CLOROL 200 SC	0.05	87.90	100.00	74.10	100.00	91.00	90.60	90.60	74.10	100.00
3	Coragen 200 SC	0.05	90.50	100.00	92.60	96.80	91.00	90.60	93.58	90.50	100.00
4	CLOROL 200 SC	0.0625	91.60	100.00	94.40	100.00	98.00	100.00	97.33	91.60	100.00
5	Coragen 200 SC	0.0625	91.60	100.00	100.00	100.00	99.00	100.00	98.43	91.60	100.00
LSD(P=.05)			12.120	-	2.890	4.690	5.810	3.870			

Table 3. The efficacy of CLOROL 200 SC in control of LPTNDE – adult

Type of assessment			**LPTNDE**							
Report code			**A.T/2023/028/ZZ**	**AI/23/Z/28/Zl/01**	**AI/23/Z/28/Gr/02**	**AI/23/Z/28/Br/03**	**AI/23/Z/28/Pr/04**			
Assessment date			28.06.2023	15.07.2023	08.07.2023	13.07.2023	22.06.2023			
Days after application DA-A			2 DA-B	2 DA-B	2 DA-B	2 DA-B	2 DA-B			
Part assessed			ADULT	ADULT	ADULT	ADULT	ADULT	**Average**	**Min.**	**Max.**
Number of pest			2.8	3.5	6.5	13.3	2.8	5.78	2.80	13.30
No.	Name	Rate (L/ha)								
1	Untreated Check	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	CLOROL 200 SC	0.05	91.70	78.60	69.20	86.80	63.60	77.98	63.60	91.70
3	Coragen 200 SC	0.05	100.00	85.70	92.30	94.30	72.70	89.00	72.70	100.00
4	CLOROL 200 SC	0.0625	100.00	92.90	76.90	88.70	100.00	91.70	76.90	100.00
5	Coragen 200 SC	0.0625	100.00	100.00	100.00	96.20	100.00	99.24	96.20	100.00
LSD(P=.05)			11.480	1.510	7.630	3.250	1.060			

Apple

Table 4. The efficacy of CLOROL 200 SC in control of CARPPO

Type of assessment			CARPPO									
Report code			**EU-23-1072-01**	**EU-23-1072-02**	**EU-23-1072-03**	**EU-23-1072-04**	**AI/24/Jbl/7/Pr/01**	**AI/24/Jbl/7/Pr/02**	**AI/24/Jbl/7/Sz/03**			
Assessment date			07.09.2024	07.09.2024	10.06.2024	10.07.2024	19.06.2024	19.06.2024	19.06.2024			
Days after application DA-A			28 DA-A; 14 DA-B	28 DA-A; 14 DA-B	31 DA-A; 17 DA-B	30 DA-A;16 DA-B	33 DA-A; 15 DA-A	33 DA-A; 15 DA-A	33 DA-A; 15 DA-A	**Average**	**Min.**	**Max.**
Pest infestation			4.0	3.0	10.8	6.5	1.5	8.5	22.0	8.0	1.5	22.0
No.	Name	Rate (mL/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	CLOROL 200 SC	75	21.00	31.00	42.10	54.60	83.30	26.50	51.10	44.23	21.00	83.30
3	CLOROL 200 SC	100	100.00	100.00	50.40	72.70	66.70	38.20	67.00	70.71	38.20	100.00
4	CLOROL 200 SC	125	100.00	100.00	77.50	70.10	50.00	44.10	55.70	71.06	44.10	100.00
5	CLOROL 200 SC	150	100.00	100.00	87.10	77.00	66.70	61.80	83.00	82.23	61.80	100.00
6	CLOROL 200 SC	175	100.00	100.00	95.80	93.70	83.30	76.50	84.10	90.49	76.50	100.00
7	Coragen 200 SC	175	100.00	100.00	98.30	93.70	83.30	55.90	72.70	86.27	55.90	100.00
LSD(P=.05)			17.900	2.300	11.690	24.010	1.080	3.410	8.710			

Table 5. The efficacy of CLOROL 200 SC in control of Tortricidae I

Type of assessment			**Tortricidae**									
Report code			**EU-23-1073-01**	**EU-23-1073-02**	**EU-23-1073-03**	**EU-23-1073-04**	**AI/24/Jbl/7/Pr/07**	**AI/24/Jbl/7/Pr/08**	**AI/24/Jbl/7/Sz/09**			
Assessment date			13.06.2024	14.06.2024	30.05.2024	27.05.2024	05.06.2024	05.06.2024	25.05.2024			
Days after application DA-A			59 DA-A; 45 DA-B	60 DA-A; 46 DA-B	42 DA-A; 30 DA-B	42 DA-A; 28 DA-B	50 DA-A; 30 DA-B	50 DA-A; 30 DA-B	43 DA-A; 28 DA-B	**Average**	**Min.**	**Max.**
Pest infestation			6.0	6.0	12.8	80.0	16.0	34.8	42.8	28.3	6.0	80.0
No.	Name	Rate (mL/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	CLOROL 200 SC	75	25.00	25.00	32.20	79.16	53.10	78.40	76.60	52.78	25.00	79.16
3	CLOROL 200 SC	100	100.00	100.00	50.20	95.05	50.00	83.50	79.50	79.75	50.00	100.00
4	CLOROL 200 SC	125	100.00	100.00	66.30	100.00	68.80	87.10	90.10	87.47	66.30	100.00
5	CLOROL 200 SC	150	100.00	100.00	82.00	100.00	57.80	87.10	83.00	87.13	57.80	100.00
6	CLOROL 200 SC	175	100.00	100.00	84.80	100.00	59.40	90.60	90.10	89.27	59.40	100.00
7	Coragen 200 SC	175	100.00	100.00	92.30	100.00	56.30	89.90	87.10	89.37	56.30	100.00
LSD(P=.05)			28.100	28.100	6.890	4.389	4.350	7.390	7.140			

Table 6. The efficacy of CLOROL 200 SC in control of Tortricidae II

Type of assessment			Tortricidae									
Report code			**EU-23-1075-01**	**EU-23-1075-02**	**EU-23-1075-03**	**EU-23-1075-04**	**AI/24/Jbl/7/Pr/04**	**AI/24/Jbl/7/Pr/05**	**AI/24/Jbl/7/Sz/06**			
Assessment date			21.09.2024	21.09.2024	01.07.2024	07.06.2024	19.06.2024	19.06.2024	21.05.2024			
Days after application DA-A			42 DA-A; 28 DA-B	42 DA-A; 28 DA-B	38 DA-A; 21 DA-B	28 DA-A; 14 DA-B	33 DA-A; 15 DA-B	33 DA-A; 15 DA-B	28 DA-A; 8 DA-B	**Average**	**Min.**	**Max.**
Pest infestation			13.0	13.0	28.3	5.0	9.8	8.0	13.0	12.9	5.0	28.3
No.	Name	Rate (mL/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	CLOROL 200 SC	75	22.00	22.00	63.52	45.12	53.80	34.40	65.40	43.75	22.00	65.40
3	CLOROL 200 SC	100	100.00	100.00	95.34	100.00	66.70	46.90	65.40	82.05	46.90	100.00
4	CLOROL 200 SC	125	100.00	100.00	99.22	100.00	53.80	37.50	65.40	79.42	37.50	100.00
5	CLOROL 200 SC	150	100.00	100.00	100.00	100.00	71.80	53.10	57.70	83.23	53.10	100.00
6	CLOROL 200 SC	175	100.00	100.00	100.00	100.00	76.90	34.40	71.20	83.21	34.40	100.00
7	Coragen 200 SC	175	100.00	100.00	100.00	100.00	74.40	46.90	67.30	84.09	46.90	100.00
LSD(P=.05)			11.700	11.700	7.244	18.422	3.450	3.070	3.340			

Winter oilseed rape

Table 7. The efficacy of CLOROL 200 SC in control of CEUPTL

Type of assessment			CEUPTL - adult										
Report code			AI/23/RO/28/Pr/01	AI/23/RO/28/Zl/02	A.T/2024/003/RZO	A.T/2024/004/RZO	A.T/2024/005/RZO	AI/24/RO/1/Pr/01	AI/24/RO/1/Zl/02	AI/24/RO/1/Br/03			
Assessment date			06.07.2023	07.07.2023	02.05.2024	17.04.2024	06.05.2024	11.06.2024	07.06.2024	07.06.2024			
Days after application DA-A			59 DA-A	43 DA-A	6 DA-A	2 DA-A	7 DA-A	35 DA-A	30 DA-A	39 DA-A			
part assessed			mixed	mixed	adult	adult	adult	adult	adult	adult	Ave-rage	Min.	Max.
pest density			22.0	34.0	38.8	66.8	68.3	32.4	17.3	24.0	37.95	17.30	68.30
No.	Name	Rate (mL/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	CLOROL 200 SC	75	90.91	93.38	66.10	7.60	47.00	73.10	66.70	67.70	64.06	7.60	93.38
3	CLOROL 200 SC	100	96.59	94.85	69.70	25.70	45.00	79.00	75.40	75.00	70.16	25.70	96.59
4	CLOROL 200 SC	125	96.59	94.85	71.00	30.20	48.70	83.30	81.20	81.30	73.39	30.20	96.59
5	CLOROL 200 SC	150	97.73	96.32	77.30	31.60	49.50	88.90	82.60	80.20	75.52	31.60	97.73
6	CLOROL 200 SC	175	98.86	97.79	82.70	40.80	56.20	91.20	87.00	89.60	80.52	40.80	98.86
7	Carnadine 200 SC	250	96.59	95.59	85.40	44.00	44.50	87.90	84.10	83.30	77.67	44.00	96.59
LSD(P=.05)			8.518	4.378	12.460	20.770	17.510	9.63-10.12	-	-			

Table 8. The efficacy of CLOROL 200 SC in control of DASYBR

Type of assessment			DASYBR										
Report code			**AI/23/RO/28/Pr/01**	**AI/23/RO/28/Zl/02**	**A.T/2024/006/RZO**	**A.T/2024/007/RZO**	**A.T/2024/008/RZO**	**AI/24/RO/1/Ma/04**	**AI/24/RO/1/JW/05**	**AI/24/RO/1/Da/06**			
Assessment date			06.07.2023	07.07.2023	15.05.2024	10.05.2024	22.05.2024	14.06.2024	10.06.2024	18.06.2024			
Days after application DA-A			59 DA-A	43 DA-A	16 DA-A	16 DA-A	16 DA-A	32 DA-A	35 DA-A	35 DA-A			
part assessed			pod	pod	larva	larva	larva	adult	adult	adult	**Ave-rage**	**Min.**	**Max.**
pest density			21.3	25.8	40.8	57.3	86.8	31.8	29	13	38.23	13.00	86.80
No.	**Name**	**Rate (mL/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	CLOROL 200 SC	75	94.10	92.20	4.30	26.80	43.00	74.80	77.60	65.40	59.78	4.30	94.10
3	CLOROL 200 SC	100	96.50	94.20	24.60	39.60	43.30	85.80	87.90	75.00	68.36	24.60	96.50
4	CLOROL 200 SC	125	97.60	95.10	28.20	45.00	40.00	89.80	90.50	80.80	70.88	28.20	97.60
5	CLOROL 200 SC	150	98.80	96.10	37.80	52.00	46.20	89.80	91.40	86.50	74.83	37.80	98.80
6	CLOROL 200 SC	175	100.00	98.10	56.90	74.70	47.50	92.10	93.10	82.70	80.64	47.50	100.00
7	Carnadine 200 SC	250	97.60	96.10	91.20	86.00	78.80	89.00	90.50	80.80	88.75	78.80	97.60
LSD(P=.05)			1.500	1.860	19.320	14.450	6.630	-	-	-			

Appendix 6 Summary of phytotoxicity trials data in summary form

Table 1 – data from efficacy trials with selectivity assessment – maize

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %			
A.T/2023/029/KK	Timing of assessment	DA-A	14 DA-A	28 DA-A	42 DA-A	
	date		07.08.2023	21.08.2023	04.09.2023	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	0.125	0.00	0.00	0.00	
	Coragen 200 SC	0.125	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	
AI/23/K/28/Zl/01	Timing of assessment	DA-A	7 DA-A	67 DA-A	87 DA-A	
	date		28.07.2023	26.09.2023	16.10.2023	
	Untreated Check	-	0.00	0.00	0.00	0.00
	CLOROL 200 SC	0.125	0.00	0.00	0.00	0.00
	Coragen 200 SC	0.125	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-
AI/23/K/28/Mr/02	Timing of assessment	DA-A	7 DA-A	50 DA-A	92 DA-A	
	date		25.07.2023	06.09.2023	18.10.2023	
	Untreated Check	-	0.00	0.00	0.00	0.00
	CLOROL 200 SC	0.125	0.00	0.00	0.00	0.00
	Coragen 200 SC	0.125	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-
AI/23/K/28/Ma/03	Timing of assessment	DA-A	7 DA-A	62 DA-A	77 DA-A	
	date		28.07.2023	21.09.2023	06.10.2023	
	Untreated Check	-	0.00	0.00	0.00	0.00
	CLOROL 200 SC	0.125	0.00	0.00	0.00	0.00
	Coragen 200 SC	0.125	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-
AI/23/K/28/Jan/04	Timing of assessment	DA-A	7 DA-A	48 DA-A	86 DA-A	
	date		25.07.2023	04.09.2023	12.10.2023	
	Untreated Check	-	0.00	0.00	0.00	0.00
	CLOROL 200 SC	0.125	0.00	0.00	0.00	0.00
	Coragen 200 SC	0.125	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-
AI/23/K/28/Jbl/05	Timing of assessment	DA-A	7 DA-A	57 DA-A	83 DA-A	
	date		10.08.2023	29.09.2023	25.10.2023	
	Untreated Check	-	0.00	0.00	0.00	0.00
	CLOROL 200 SC	0.125	0.00	0.00	0.00	0.00
	Coragen 200 SC	0.125	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-

Table 2 – – data from efficacy trials with selectivity assessment – potato

Report code	Treatment	Dose [L/ha]	Phytotoxicity in %				
A.T/2023/027/ZZ	Timing of assessment	DA-A	2 DA-A	10 DA-A	2 DA-B	7 DA-B	16 DA-B
	date		16.06.2023	24.06.2023	26.06.2023	01.07.2023	10.07.2023
	Untreated Check	-	0.00	0.00	0.00	0.00	0.00
	CLOROL 200 SC	0.05	0.00	0.00	0.00	0.00	0.00
	Coragen 200 SC	0.05	0.00	0.00	0.00	0.00	0.00
	CLOROL 200 SC	0.0625	0.00	0.00	0.00	0.00	0.00
	Coragen 200 SC	0.0625	0.00	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-	-
A.T/2023/028/ZZ	Timing of assessment	DA-A	2 DA-A	11 DA-A	2 DA-B	9 DA-B	
	date		17.06.2023	26.06.2023	28.06.2023	05.07.2023	
	Untreated Check	-	0.00	0.00	0.00	0.00	
	CLOROL 200 SC	0.05	0.00	0.00	0.00	0.00	
	Coragen 200 SC	0.05	0.00	0.00	0.00	0.00	
	CLOROL 200 SC	0.0625	0.00	0.00	0.00	0.00	
	Coragen 200 SC	0.0625	0.00	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	-	-
AI/23/Z/28/Zl/01	Timing of assessment	DA-A	2 DA-A	8 DA-A	2-DA-B		
	date		01.07.2023	07.07.2023	15.07.2023		
	Untreated Check	-	0.00	0.00	0.00		
	CLOROL 200 SC	0.05	0.00	0.00	0.00		
	Coragen 200 SC	0.05	0.00	0.00	0.00		
	CLOROL 200 SC	0.0625	0.00	0.00	0.00		
	Coragen 200 SC	0.0625	0.00	0.00	0.00		
	LSD (P=0.05)		-	-	-	-	-
AI/23/Z/28/Gr/02	Timing of assessment	DA-A	2 DA-A	7 DA-A	2-DA-B		
	date		28.06.2023	03.07.2023	08.07.2023		
	Untreated Check	-	0.00	0.00	0.00		
	CLOROL 200 SC	0.05	0.00	0.00	0.00		
	Coragen 200 SC	0.05	0.00	0.00	0.00		
	CLOROL 200 SC	0.0625	0.00	0.00	0.00		
	Coragen 200 SC	0.0625	0.00	0.00	0.00		
	LSD (P=0.05)		-	-	-	-	-
AI/23/Z/28/Br/03	Timing of assessment	DA-A	2 DA-A	9 DA-A	2-DA-B		
	date		28.06.2023	05.07.2023	13.07.2023		
	Untreated Check	-	0.00	0.00	0.00		
	CLOROL 200 SC	0.05	0.00	0.00	0.00		
	Coragen 200 SC	0.05	0.00	0.00	0.00		
	CLOROL 200 SC	0.0625	0.00	0.00	0.00		
	Coragen 200 SC	0.0625	0.00	0.00	0.00		
	LSD (P=0.05)		-	-	-	-	-
AI/23/Z/28/Pr/04	Timing of assessment	DA-A	2 DA-A	7 DA-A	2-DA-B		
	date		12.06.2023	17.06.2023	22.06.2023		
	Untreated Check	-	0.00	0.00	0.00		

	CLOROL 200 SC	0.05	0.00	0.00	0.00		
	Coragen 200 SC	0.05	0.00	0.00	0.00		
	CLOROL 200 SC	0.0625	0.00	0.00	0.00		
	Coragen 200 SC	0.0625	0.00	0.00	0.00		
	LSD (P=0.05)		-	-	-	-	-

Table 3 – data from efficacy trials with selectivity assessment – apple

Report code	Treatment	Dose [mL/ha]	Phytotoxicity in %								
EU-23-1072-01	Timing of assess-ment	DA-A	0 DA-A	7 DA-A	14 DA-A	21 DA-A	28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A
		DA-B	-	-	0 DA-B	7 DA-B	14 DA-B	21 DA-B	28 DA-B	35 DA-B	42 DA-B
	date		10.08.2024	17.08.2023	24.08.2024	31.08.2024	07.09.2024	14.09.2024	21.09.2024	28.09.2024	05.10.2024
	1. Untreated Check		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LSD (P=.05)	-	-	-	-	-	-	-	-	-	-
EU-23-1072-02	Timing of assess-ment	DA-A	0 DA-A	7 DA-A	14 DA-A	21 DA-A	28 DA-A	35 DA-A	42 DA-A	49 DA-A	56 DA-A
		DA-B	-	-	0 DA-B	7 DA-B	14 DA-B	21 DA-B	28 DA-B	35 DA-B	42 DA-B
	date		10.08.2024	17.08.2023	24.08.2024	31.08.2024	07.09.2024	14.09.2024	21.09.2024	28.09.2024	05.10.2024
	1. Untreated Check		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LSD (P=.05)	-	-	-	-	-	-	-	-	-	-
EU-23-1072-03	Timing of assess-ment	DA-A	14 DA-A	31 DA-A	136 DA-A						
		DA-B	0 DA-B	17 DA-B	122 DA-B						
	date		24.05.2024	10.06.2023	23.09.2023						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						

	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
EU-23-1072-04	**Timing of assessment**	**DA-A**	**14 DA-A**	**30 DA-A**	**106 DA-A**						
		DA-B	**0 DA-B**	**16 DA-B**	**92 DA-B**						
	date		**24.06.2024**	**07.07.2023**	**24.09.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
EU-23-1073-01	**Timing of assessment**	**DA-A**	**1 DA-A**	**29 DA-A**	**60 DA-A**	**89 DA-A**	**121 DA-A**	**152 DA-A**	**177 DA-A**		
		DA-B	**-**	**15 DA-B**	**46 DA-B**	**75 DA-B**	**107 DA-B**	**138 DA-B**	**163 DA-B**		
	date		**15.04.2024**	**13.05.2023**	**13.06.2024**	**13.07.2024**	**13.08.2024**	**13.09.2024**	**09.10.2024**		
	1. Untreated Check		0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	LSD (P=.05)	-	-	-	-	-	-	-	-		
EU-23-1073-02	**Timing of assessment**	**DA-A**	**1 DA-A**	**29 DA-A**	**60 DA-A**	**89 DA-A**	**121 DA-A**	**152 DA-A**	**177 DA-A**		
		DA-B	**-**	**15 DA-B**	**46 DA-B**	**75 DA-B**	**107 DA-B**	**138 DA-B**	**163 DA-B**		
	date		**16.04.2024**	**14.05.2024**	**14.06.2024**	**13.07.2024**	**14.08.2024**	**14.09.2024**	**09.10.2024**		

	1. Untreated Check		0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	LSD (P=.05)	-	-	-	-	-	-	-	-		
EU-23-1073-03	**Timing of assess-ment**	**DA-A**	**29 DA-A**	**42 DA-A**	**133 DA-A**						
		DA-B	**17 DA-B**	**30 DA-B**	**121 DA-B**						
	date		**17.05.2024**	**30.05.2024**	**29.08.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
EU-23-1073-04	**Timing of assess-ment**	**DA-A**	**14 DA-A**	**28 DA-A**	**42 DA-A**	**165 DA-A**					
		DA-B	**0 DA-B**	**14 DA-B**	**28 DA-A**	**151 DA-A**					
	date		**29.04.2024**	**13.05.2024**	**27.05.2024**	**27.09.2024**					
	1. Untreated Check		0.00	0.00	0.00	0.00					
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00					
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00					
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00					
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00					
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00					
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00					

	LSD (P=.05)	-	-	-	-						
EU-23-1075-01	**Timing of assess-ment**	**DA-A**	**0 DA-A**	**7 DA-A**	**14 DA-A**	**21 DA-A**	**28 DA-A**	**35 DA-A**	**42 DA-A**	**49 DA-A**	**56 DA-A**
		DA-B	-	-	**0 DA-B**	**7 DA-B**	**14 DA-B**	**21 DA-B**	**28 DA-B**	**35 DA-B**	**42 DA-B**
	date		**10.08.2024**	**17.08.2023**	**24.08.2024**	**31.08.2024**	**07.09.2024**	**14.09.2024**	**21.09.2024**	**28.09.2024**	**05.10.2024**
	1. Untreated Check		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LSD (P=.05)	-	-	-	-	-	-	-	-	-	-
EU-23-1075-02	**Timing of assess-ment**	**DA-A**	**0 DA-A**	**7 DA-A**	**14 DA-A**	**21 DA-A**	**28 DA-A**	**35 DA-A**	**42 DA-A**	**49 DA-A**	**56 DA-A**
		DA-B	-	-	**0 DA-B**	**7 DA-B**	**14 DA-B**	**21 DA-B**	**28 DA-B**	**35 DA-B**	**42 DA-B**
	date		**10.08.2024**	**17.08.2023**	**24.08.2024**	**31.08.2024**	**07.09.2024**	**14.09.2024**	**21.09.2024**	**28.09.2024**	**05.10.2024**
	1. Untreated Check		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	LSD (P=.05)	-	-	-	-	-	-	-	-	-	-
EU-23-1075-03	**Timing of assess-ment**	**DA-A**	**17 DA-A**	**38 DA-A**	**61 DA-A**	**125 DA-A**					
		DA-B	**0 DA-B**	**21 D-AB**	**44 DA-B**	**108 DA-B**					
	date		**10.04.2024**	**01.07.2024**	**24.07.2024**	**26.09.2024**					
	1. Untreated Check		0.00	0.00	0.00	0.00					
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00					
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00					
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00					

	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00					
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00					
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00					
	LSD (P=.05)	-	-	-	-	-					
EU-23-1075-04	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**21 DA-A**	**28 DA-A**	**157 DA-A**				
		DA-B	**-**	**0 DA-B**	**7 DA-B**	**14 DA-B**	**143 DA-B**				
	date		**17.05.2024**	**24.05.2024**	**31.05.2024**	**07.06.2024**	**14.10.2024**				
	1. Untreated Check		0.00	0.00	0.00	0.00	0.00				
	2. CLOROL 200 SC	75	0.00	0.00	0.00	0.00	0.00				
	3. CLOROL 200 SC	100	0.00	0.00	0.00	0.00	0.00				
	4. CLOROL 200 SC	125	0.00	0.00	0.00	0.00	0.00				
	5. CLOROL 200 SC	150	0.00	0.00	0.00	0.00	0.00				
	6. CLOROL 200 SC	175	0.00	0.00	0.00	0.00	0.00				
	7. Coragen 200 SC	175	0.00	0.00	0.00	0.00	0.00				
	LSD (P=.05)	-	-	-	-	-	-				
AI/24/Jbl/7/Pr/01	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**25 DA-A**						
		DA-B	**-**	**0 DA-B**	**7 DA-B**						
	date		**24.05.2024**	**31.05.2024**	**11.06.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
AI/24/Jbl/7/Pr/02	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**25 DA-A**						
		DA-B	**-**	**0 DA-B**	**7 DA-B**						
	date		**24.05.2024**	**31.05.2024**	**11.06.2024**						
	1. Untreated Check		0.00	0.00	0.00						

	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
AI/24/Jbl/7/Sz/03	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**27 DA-A**						
		DA-B	**-**	**0 DA-B**	**7 DA-B**						
	date		**21.05.2024**	**28.05.2024**	**10.06.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
AI/24/Jbl/7/Pr/04	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**25 DA-A**						
		DA-B	**-**	**0 DA-B**	**7 DA-B**						
	date		**24.05.2024**	**31.05.2024**	**11.06.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						

AI/24/Jbl/7/Pr/05	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**25 DA-A**						
		DA-B	**-**	**0 DA-B**	**7 DA-B**						
	date		**24.05.2024**	**31.05.2024**	**11.06.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
AI/24/Jbl/7/Sz/06	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**21 DA-A**						
		DA-B	**-**	**0 DA-B**	**1 DA-B**						
	date		**21.05.2024**	**28.05.2024**	**04.06.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
AI/24/Jbl/7/Pr/07	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**28 DA-A**						
		DA-B	**-**	**0 DA-B**	**8 DA-B**						
	date		**23.05.2024**	**30.05.2024**	**14.05.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						

	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						
AI/24/Jbl/7/Pr/08	**Timing of assess-ment**	**DA-A**	**7 DA-A**	**14 DA-A**	**28 DA-A**						
		DA-B	**-**	**0 DA-B**	**8 DA-B**						
	date		**23.05.2024**	**30.05.2024**	**14.05.2024**						
	1. Untreated Check		0.00	0.00	0.00						
	2. CLOROL 200 SC	75	0.00	0.00	0.00						
	3. CLOROL 200 SC	100	0.00	0.00	0.00						
	4. CLOROL 200 SC	125	0.00	0.00	0.00						
	5. CLOROL 200 SC	150	0.00	0.00	0.00						
	6. CLOROL 200 SC	175	0.00	0.00	0.00						
	7. Coragen 200 SC	175	0.00	0.00	0.00						
	LSD (P=.05)	-	-	-	-						

Table 4 – data from efficacy trials with selectivity assessment – winter oilseed rape – one application

Report code	Treatment	Dose [mL/ha]	Phytotoxicity in %			
AI/23/RO/28/Pr/01	Timing of assessment	DA-A	7 DA-A	14 DA-A	28 DA-A	59 DA-A
	date		15.05.2023	22.05.2023	05.06.2023	06.07.2023
	Untreated Check	-	0.00	0.00	0.00	0.00
	CLOROL 200 SC	75	0.00	0.00	0.00	0.00
	CLOROL 200 SC	100	0.00	0.00	0.00	0.00
	CLOROL 200 SC	125	0.00	0.00	0.00	0.00
	CLOROL 200 SC	150	0.00	0.00	0.00	0.00
	CLOROL 200 SC	175	0.00	0.00	0.00	0.00
	Carnadine 200 SC	250	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-
AI/23/RO/28/Zl/02	Timing of assessment	DA-A	7 DA-A	14 DA-A	28 DA-A	43 DA-A
	date		01.06.2023	08.06.2023	22.06.2023	07.07.2023
	Untreated Check	-	0.00	0.00	0.00	0.00
	CLOROL 200 SC	75	0.00	0.00	0.00	0.00
	CLOROL 200 SC	100	0.00	0.00	0.00	0.00
	CLOROL 200 SC	125	0.00	0.00	0.00	0.00
	CLOROL 200 SC	150	0.00	0.00	0.00	0.00
	CLOROL 200 SC	175	0.00	0.00	0.00	0.00
	Carnadine 200 SC	250	0.00	0.00	0.00	0.00
	LSD (P=0.05)		-	-	-	-
A.T/2024/003/RZO	Timing of assessment	DA-A	1 DA-A	6DA-A	24 DA-A	
	date		27.04.2024	02.05.2024	20.05.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	-
A.T/2024/004/RZO	Timing of assessment	DA-A	2 DA-A	6 DA-A	25 DA-A	
	date		17.04.2024	21.04.2024	10.05.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	-

A.T/2024/005/RZO	Timing of assessment	DA-A	1 DA-A	7 DA-A	23 DA-A	
	date		30.04.2024	06.05.2024	22.05.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	-
A.T/2024/006/RZO	Timing of assessment	DA-A	5 DA-A	16 DA-A		
	date		04.05.2024	15.05.2024		
	Untreated Check	-	0.00	0.00		
	CLOROL 200 SC	75	0.00	0.00		
	CLOROL 200 SC	100	0.00	0.00		
	CLOROL 200 SC	125	0.00	0.00		
	CLOROL 200 SC	150	0.00	0.00		
	CLOROL 200 SC	175	0.00	0.00		
	Carnadine 200 SC	250	0.00	0.00		
	LSD (P=0.05)		-	-	-	-
A.T/2024/007/RZO	Timing of assessment	DA-A	6 DA-A	16 DA-A		
	date		30.04.2024	10.05.2024		
	Untreated Check	-	0.00	0.00		
	CLOROL 200 SC	75	0.00	0.00		
	CLOROL 200 SC	100	0.00	0.00		
	CLOROL 200 SC	125	0.00	0.00		
	CLOROL 200 SC	150	0.00	0.00		
	CLOROL 200 SC	175	0.00	0.00		
	Carnadine 200 SC	250	0.00	0.00		
	LSD (P=0.05)		-	-	-	-
A.T/2024/008/RZO	Timing of assessment	DA-A	6 DA-A	14 DA-A		
	date		14.05.2024	22.05.2024		
	Untreated Check	-	0.00	0.00		
	CLOROL 200 SC	75	0.00	0.00		
	CLOROL 200 SC	100	0.00	0.00		
	CLOROL 200 SC	125	0.00	0.00		
	CLOROL 200 SC	150	0.00	0.00		
	CLOROL 200 SC	175	0.00	0.00		
	Carnadine 200 SC	250	0.00	0.00		
	LSD (P=0.05)		-	-	-	-
AI/24/RO/1/Pr/01	Timing of assessment	DA-A				
	date		14.05.2024	21.05.2024	11.06.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	

	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	-
AI/24/RO/1/Zl/02	Timing of assessment	DA-A	7 DA-A	14 DA-A	30 DA-A	
	date		15.05.2024	22.05.2024	07.06.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	-
AI/24/RO/1/Br/03	Timing of assessment	DA-A	7 DA-A	14 DA-A	31 DA-A	
	date		06.05.2024	13.05.2024	30.05.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	-
AI/24/RO/1/Ma/04	Timing of assessment	DA-A	7 DA-A	14 DA-A	32 DA-A	
	date		20.05.2024	27.05.2024	14.06.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	
AI/24/RO/1/JW/05	Timing of assessment	DA-A	7 DA-A	14 DA-A	35 DA-A	
	date		13.05.2024	20.05.2024	10.06.2024	
	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	
AI/24/RO/1/Da/06	Timing of assessment	DA-A	7 DA-A	14 DA-A	35 DA-A	
	date		21.05.2024	28.05.2024	18.06.2024	

	Untreated Check	-	0.00	0.00	0.00	
	CLOROL 200 SC	75	0.00	0.00	0.00	
	CLOROL 200 SC	100	0.00	0.00	0.00	
	CLOROL 200 SC	125	0.00	0.00	0.00	
	CLOROL 200 SC	150	0.00	0.00	0.00	
	CLOROL 200 SC	175	0.00	0.00	0.00	
	Carnadine 200 SC	250	0.00	0.00	0.00	
	LSD (P=0.05)		-	-	-	

Table 5 – data from efficacy trials – maize

Test report (1)	Testing Unit GEP (2)	Country Region (3)	Dates of trials and GS (4)	Cultivar F/G (5) N/A (6)	Experimental design Test method (7) Replicates	Remarks
A.T/2023/029/KK	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Grzebienisko/ Poland	24.07.2023 BBCH 59-69	maize/ DKC 3939 F N	Randomized blocks EPPO PP 1/135 (4) 7	Soil type: sandy loam pH 6.6
AI/23/K/28/Zl/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Zotniki /Poland	21.07.2023 BBCH 62-63	maize/ FARMFIRE F N	Randomized blocks EPPO PP 1/135 (4) 7	Soil type: sandy loam pH 5.9
AI/23/K/28/Mr/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Mrowino /Poland	18.07.2023 BBCH 59-60	maize/ Garanto F N	Randomized blocks EPPO PP 1/135 (4) 7	Soil type: sandy loam pH 5.9
AI/23/K/28/Ma/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Machary /Poland	21.07.2023 BBCH 59-61	maize/ LG31240 F N	Randomized blocks EPPO PP 1/135 (4) 7	Soil type: sandy loam pH 5.9
AI/23/K/28/Jan/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Janowiec Wielkopolski /Poland	18.07.2023 BBCH 58-59	maize/ FARMODENA F N	Randomized blocks EPPO PP 1/135 (4) 7	Soil type: sandy loam pH 5.9
AI/23/K/28/Jbl/05	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Jabłowo Pałuckie /Poland	03.08.2023 BBCH 67-69	maize/ Amavit F N	Randomized blocks EPPO PP 1/135 (4) 7	Soil type: sandy loam pH 6.7

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

Table 6 – data from efficacy trials – potato

Test report (1)	Testing Unit GEP (2)	Country Region (3)	Dates of trials and GS (4)	Cultivar F/G (5) N/A (6)	Experimental design Test method (7) Replicates	Remarks
A.T/2023/027/ZZ	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno, Poland	Rakojady /Poland	14.06.2023 24.06.2023 BBCH 33-37 BBCH 39-51	potato/ Partner F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: loamy sand pH 6.28
A.T/2023/028/ZZ	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Melanowo/Poland	15.06.2023 26.06.2023 BBCH 33-37 BBCH 39-55	potato/ Vineta F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: loamy sand pH 4.75
AI/23/Z/28/Zl/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Złotniki/Poland	29.06.2023 14.07.2023 BBCH 55-59 BBCH 73-74	potato/ Vineta F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam Ph 5.9
AI/23/Z/28/Gr/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Gorzyń/Poland	26.06.2023 06.07.2023 BBCH 66-67 BBCH 69-70	potato/ Toscana F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 6.5

AI/23/Z/28/Br/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Bro-dy/Poland	26.06.2023 11.07.2023 BBCH 55-59 BBCH 75-79	potato/ DENAR F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 6.3
AI/23/Z/28/Pr/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Przybro-da/Poland	10.06.2023 20.06.2023 BBCH 51-55 BBCH 71-73	potato/ Lord F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 5.9

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

Table 7 – data from efficacy trials – apple

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**
EU-23-1072-01	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Ludwików / Poland	A: 10.08.2024 B: 24.08.2024 A: BBCH 76-78 B: BBCH 77-79	apple / Ligol F N	Randomized blocks EPPO PP 1/7(4) 4	Soil type: loamy sand pH 6,6
EU-23-1072-02	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Nowy Żylin / Poland	A: 10.08.2024 B: 24.08.2024 A: BBCH 75-77 B: BBCH 77-79	apple / Gloster F N	Randomized blocks EPPO PP 1/7(4) 4	Soil type: sandy clay pH 6,5
EU-23-1072-03	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Wysoki Kosciol / Poland	A: 10.05.2024 B: 24.05.2024 A: BBCH 71-73 B: BBCH 72-75	apple / An-tonówka F N	Randomized blocks EPPO PP 1/7(4) 4	Soil type: loamy sand pH 6,5
EU-23-1072-04	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Bark / Poland	A: 10.06.2024 B: 24.06.2024 A: BBCH 72-73 B: BBCH 73-74	apple / Cortland F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,5
EU-23-1073-01	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Ludwików / Poland	A: 15.04.2024 B: 29.04.2024 A: BBCH 56-59 B: BBCH	apple / Jonag-old F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,5
EU-23-1073-02	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Nowy Żylin / Poland	A: 15.04.2024 B: 29.04.2024 A: BBCH 53-56 B: BBCH 56-59	apple / Gala F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,5
EU-23-1073-03	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Bedkowo / Poland apple / Starking	A: 18.04.2024 B: 30.04.2024 A: BBCH 56-57 B: BBCH 59-65	apple / Starking F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,5
EU-23-1073-04	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Żędowo / Poland apple / Gloster	A: 15.04.2024 Bl 29.04.2024 A: BBCH 56 B: BBCH 63-65	apple / Gloster F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: sandy loeam pH 6,8

EU-23-1075-01	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Ludwików / Poland	A: 10.08.2024 B: 24.08.2024 A: BBCH 76-78 B: BBCH 77-79	apple / Golden Delicious F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,5
EU-23-1075-02	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Nowy Żylin / Poland	A: 10.08.2024 B: 24.08.2024 A: BBCH 75-77 B: BBCH 76-78	apple / Idared F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,5
EU-23-1075-03	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Bark / Poland	A: 24.05.2024 B: 10.06.2024 A: BBCH 71-72 B: BBCH 72-74	apple / Cortland F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,5
EU-23-1075-04	SynTech Research Poland Sp. z o.o. 69/1 Jagiellonska 85-027 Bydgoszcz Poland	Stefanówka / Poland	A: 10.05.2024 B: 24.05.2024 A: BBCH 71-72 B: BBCH 73-74	apple / Elise F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: sandy loam pH 6,5
AI/24/Jbł/7/Pr/01	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Przybroda / Poland	A: 17.05.2024 B: 05.06.2024 A: BBCH 72 B: BBCH 74	apple / Gala Must F N	Randomized blocks EPPO PP 1/7(4) 4	Soil type: loamy sand pH 6,9
AI/24/Jbł/7/Pr/02	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Przybroda / Poland	A: 17.05.2024 B: 04.06.2024 A: BBCH 72 B: BBCH 74	apple / Ligol F N	Randomized blocks EPPO PP 1/7(4) 4	Soil type: loamy sand pH 6,9
AI/24/Jbł/7/Sz/03	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Szreniawa / Poland	A: 14.05.2024 B: 03.06.2024 A: BBCH 72 B: BBCH 74	apple / Fuji F N	Randomized blocks EPPO PP 1/7(4) 4	Soil type: sandy loam pH 5,9
AI/24/Jbł/7/Pr/04	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Przybroda / Poland	A: 17.05.2024 B: 04.06.2024 A: BBCH 72 B: BBCH 74	apple / Gala Must F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: sandy loam pH 5,9
AI/24/Jbł/7/Pr/05	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Przybroda / Poland	A: 17.05.2024 B: 04.06.2024 A: BBCH 72 B: BBCH 74	apple / Ligol F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 6,0
I/24/Jbł/7/Sz/06	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Szreniawa / Poland	A: 14.05.2024 B: 03.06.2024 A: BBCH 72 B: BBCH 74	apple / Fuji F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: sandy loam pH 5,9
AI/24/Jbł/7/Pr/07	Poznań University of Life Sciences	Przybroda / Poland	A: 16.05.2024 B: 06.05.2024	apple / Szam-pion	Randomized blocks EPPO PP 1/6(3)	Soil type: loamy sand

	Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland		A: BBCH 56 B: BBCH 67	F N	4	pH 5,9
AI/24/Jbł/7/Pr/08	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Przybroda / Poland	A: 16.04.2024 B: 06.05.2024 A: BBCH 56 B: BBCH 67	apple / Topaz F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: loamy sand pH 5,9
AI/24/Jbł/7/Sz/09	Poznań University of Life Sciences Research Center Złotniki Wojska Polskiego 28 60-637 Poznań Poland	Szreniawa / Poland	A: 12.04.2024 B: 27.04.2024 A: BBCH 56 B: BBCH 67	apple / Idared F N	Randomized blocks EPPO PP 1/6(3) 4	Soil type: sandy loam pH 6,0

Table 8 – data from efficacy trials – winter oilseed rape – one application

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
AI/23/RO/28/Pr/01	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Przybroda/ Poland	08.05.2023 BBCH 63-65	winter oilseed rape/ Harry F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: loamy sand pH 6.0
AI/23/RO/28/Zł/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, ul. Wojska Polskiego 28, 60-637 Poznań	Złotniki / Poland	25.05.2023 BBCH 65-69	winter oilseed rape/ Bradley F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: loamy sand pH 6.0
A.T/2024/003/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Laskownica Mała / Poland	26.04.2024 BBCH 62-64	winter oilseed rape/ Kuga F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: loamy sand pH 6.3
A.T/2024/004/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Lusówko / Poland	15.04.2024 BBCH 62-64	winter oilseed rape/ Dron F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 6.2
A.T/2024/005/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Lichnowy / Poland	29.04.2024 BBCH 61-63	winter oilseed rape/ Onca F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 5.65
A.T/2024/006/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Laskownica Mała / Poland	29.04.2024 BBCH 64-67	winter oilseed rape/ Kuga F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: loamy sand pH 6.0
A.T/2024/007/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Lusówko / Poland	24.04.2024 BBCH 63-64	winter oilseed rape/ Dron F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 6.2
A.T/2024/008/RZO	A.T Sp. z o.o. ul. Przemysłowa 3 88-300 Mogilno	Lichnowy / Poland	08.05.2024 BBCH 65-67	winter oilseed rape/ Onca F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 5.65
AI/24/RO/1/Pr/01	Poznań University of Life	Przybroda /	07.05.2024	winter	Randomized	Soil type: loamy

	Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Poland	BBCH 65-67	oilseed rape/ Harry F N	blocks EPPO PP 1/135 (4) 4	sand pH 6.0
AI/24/RO/1/Zl/02	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Suchy Las / Poland	08.05.2024 BBCH 67-69	winter oilseed rape/ Architect F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 5.9
AI/24/RO/1/Br/03	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Lwówek / Poland	29.04.2024 BBCH 69-71	winter oilseed rape/ Ambassador F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 6.6
AI/24/RO/1/Ma/04	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Machary / Poland	13.05.2024 BBCH 69	winter oilseed rape/ Graf F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 5.9
AI/24/RO/1/JW/05	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Janowiec Wielkopol-ski / Poland	06.05.2024 BBCH 65-69	winter oilseed rape/ Berny F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 6.0
AI/24/RO/1/Da/06	Poznań University of Life Sciences, Research and Education Center Gorzyń, Agronomy Department; ul. Wojska Polskiego 28, 60-637 Poznań, Poland	Dalekie / Poland	14.05.2024 BBCH 69	Winter oilseed rape/ Chrobry F N	Randomized blocks EPPO PP 1/135 (4) 4	Soil type: sandy loam pH 5.9

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