REGISTRATION REPORT

Part B

Section 3

Efficacy Data and Information

Concise summary

Product code: GLOB1911F

Product names: **CURRANDO / SUBIGON / COLLECTOR**

Chemical active substance:

Difenoconazole, 500 g/L

Central Zone

Zonal Rapporteur Member State: Poland

CORE ASSESSMENT

Applicant: Globachem N.V.

Submission date: April 2020

MS Finalisation date: May 2021

Revision date: October 2021

Version history

When	What
November 2020	Updated section 3.3
May 2021	Version evaluated by zRMS
October 2021	The update after comments

Table of Contents

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

This document is to be used by the applicant of a plant protection product for authorization at Member State level. It has been designed to provide guidance on the preparation of Part B, Section 3 (Efficacy Data and Information) of the draft registration report (dRR) and on the information required specifically for this section. The guidance is applicable to the core assessment and the national addenda (if submitted).

Notes: Text shaded turquoise provides general information/support and should be deleted when the document is finalized. Text highlighted in yellow should be changed as specified; it shows example text. Explanation may be added and text that is not relevant may be removed.

Tables are provided as examples and may be adapted to suit the product being evaluated (columns can be added or deleted). Moreover, some tables are not relevant for all products or all submission types and can be added or deleted.

Fields shaded in grey are reserved for Member State assessors and should not be filled in by the applicant.

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

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

Comments of zRMS:	The commenting boxes are filled-in by the zRMS. They are usually placed at the end of each chapter. Commenting boxes should be understandable alone and refer very precisely to the text commented. The main advantage of their use is to distinguish easily between the applicant and the zRMS text.

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

Abstract

To support registration of the new formulation Difenoconazole 500 SC, data of Difcor 250 EC were provided to show comparability of both products and their performance across conducted trials and a new product based on a 'bridging' approach does not have an adverse impact on the effectiveness. Difcor 250 EC containing difenoconazole, is also produced by Globachem N.V., therefore premise that there is appropriate data access to the existing formulation. The applicant has stated that they hold authorizations in all MS included in this GAP table. The zRMS has not validated this and therefore can only confirm the efficacy status of PL authorization. In this case, bridging trials are presented across a representative range of uses where the dose of active substance per hectare for both products is the same in all comparative (side-by-side) trials. The trials have been conducted with Difenoconazole 500 SC at a dose rate of 0,25 L/ha and reference product Difcor 250 EC at a dose rate of 0,5 l/ha, against pathogens on potato, sugar beet and oilseed rape in 24 efficacy trials carried out between 2018 and 2019.

Minimum effective dose tests

No specific minimum effective dose trial has been carried out. However, based on results from the bridging trials provided under section 3.2.3., the dose of 0,25 l/ha of Difenoconazole 500 SC provided the optimum overall control and should be considered as an effective solution against the claimed major diseases. Thus, the proposed rate of 0.25 l/ha should be considered the minimum effective dose to deliver broad-spectrum control under a wide range of environmental conditions.

Efficacy tests
MARITIME EPPO Zone

The efficacy of Difenoconazole 500 SC is mostly comparable between requested uses, so the data should be evaluated as a complete package representing moderate to good control against a range of pathogens on potato, sugar beet and oilseed. These results allow the basic Difcor 250 EC dossier to be used in the registration process for the new product Difenoconazole 500 SC as a complement to the new product test results. In some cases, both products have lower levels of control than expected e.g., oilseed rape trials. The differences observed were mostly related to adverse weather conditions that were generally not conducive to the development of diseases with little or no rainfall throughout the critical infection period.

The individual cMS perhaps has specific guidance describing registration new product based on EPPO Guideline 1/307(2). Therefore, cMS based on extensive national experience should consider whether presented data there is an appropriate data package to support the registration of Difenoconazole 500 SC based on a 'bridging' approach.

However, at the peer review DE, CZ, and NL argued that the dossier is insufficient to support the effectiveness of CURRANDO for winter and spring oilseed rape and sugar beet (except for claimed use against CERCBE in DE and UROMBE in NL). Therefore, if the applicant is wishing to register this product in these Member States, they should discuss requirements and/or submit additional efficacy trials to the extent compatible with the guideline EPPO PP 1/226 in a National Addendum.

NORTH - EAST EPPO Zone

Comparative (side by side) trials was used to demonstrate that the new product Difenoconazole 500 SC efficacy is equivalent to the original, already registered product. Comparability of both products regarding the active substance, mode of action and dose rate can be considered as a suitable package with a reduced number of trials for each crop for the claim of use of Difenoconazole 500 SC. According to the presented results, it can be concluded that the results of the tested product Difenoconazole 500 SC are comparable with the results of products Difcor 250 EC/Narita 250 EC tested at the same amount of active substance per hectare. It is acceptable that trials available for Difcor 250 EC/Narita 250 EC can be used as bridging trials to cover the requested uses as follow:

Crop	Application rate L/ha	Pests	Timing / Growth stage of crop & season	Max. number per use
Potatoes	0,25	*Alternaria* sp. (ALTESP)	BBCH 65-91	1-4
Sugar beet	0,25	*Cercospora beticola* (CERCBE)	After BBCH 39 till 49	1-2
Winter oilseed rape	0,25	*Alternaria brassicae* (ALTEBA), *Sclerotinia sclerotiorum* (SCLESC)	BBCH 60-65	1

Registration in Poland of DIFCOR 250 EC/Narita 250 EC does not cover application against *Ramularia beticola*, *Erysiphe betae* on sugar beet and *Phoma lingam, Erysiphe cruciferarum* and *Pyrenopeziza brassicae* on oilseed rape as well as requested use on spring oilseed rape. For the above-requested uses, the number of trials included by the applicant is insufficient for their registration in the context of EPPO standard PP 1/226(2).

Information on the occurrence or possible occurrence of the development of resistance

The applicant has provided a resistance risk analysis according to guideline EPPO. Overall, the risk of resistance can be estimated as low to medium for the difenoconazole. The management strategy presented by the applicant should be implemented in cMS based on the latest FRAC recommendations and consideration in that cMS conditions.

Phytotoxicity to host crop

Based on the known crop safety of application of difenoconazole on crops and no effects on crop vigour and phytotoxicity across selectivity assessment gathered in the efficacy trials it is reasonable to conclude that Difenoconazole 500 SC has no adverse effects to host crop when applied at the proposed label rates and according to label recommendations.

Effect on yield of treated plants or plant product

Difenoconazole 500 SC applied at a proposed dose rate of 0,25 L/ha had no negative effects on crop yield and quality when applied in oilseed rape, potato and sugar beet and could actually increase total mean yield slightly compared to untreated control.

Impact on succeeding crops

There is no risk of the appearance of the adverse effect of the fungicide Difenoconazole 500 SC on succeeding crops even in the event of crop failure on a field that has been treated with this product.

Impact on other plants including adjacent crops

Difenoconazole 500 SC will not have unacceptable effects on non-target terrestrial plants when applied at a maximum application rate of 0.25 L/HA.

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. *	**Member state(s)**	**Crop and/ or situation** (crop destination / purpose of crop)	**F, Fn, Fnp G, Gn, Gnp 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, other dose rate expression, dose range (min-max)	**zRMS Conclusion (efficacy)**
					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	Potatoes SOLTU *Solanum tuberosum*	F	*Alternaria* sp. (ALTESP)	Normal downward spraying	BBCH 65-99	a) 1-4 b) 1-4	10	a) 0.250 L/ha b)1.0 L/ha	a) 0.125 kg as/ha b) 0.500 kg as/ha	250-400	14		
2	PL	Sugar beet BEAVA *Beta vulgaris*	F	*Cercospora beticola* (CERCBE)	Normal downward spraying	After BBCH 39 till 49	A) 1-2 B) 1-2	14	a)0.250 L/ha b)0.500 L/ha	a) 0.125 kg as/ha b) 0.250 kg as/ha	100-400	21		
3	PL	Winter oilseed rape BRSNW *Brassica napus*	F	*Alternaria brassicae* (ALTEBA) *Sclerotinia sclerotiorum* (SCLESC)	Normal downward spraying	BBCH 60-65	A) 1 B) 1	-	A) 0.250 L/ha B) 0.250 L/ha	A) 0.250 L/ha B) 0.250 L/ha	100-400	56		
4	CZ, BE, DE, NL	Potatoes SOLTU *Solanum tuberosum*	F	*Alternaria* sp. (ALTESP)	Normal downward spraying	BBCH 40-99	A)1-4 B)1-4	10	A) 0.250 L/ha B) 1.0 L/ha	a) 0.125 kg as/ha b) 0.500 kg as/ha	100-400	14		
5	CZ, BE, NL	Sugar beet/ fodder beet BEAVA *Beta vulgaris*	F	Rust (UROMBE), *Ramularia beticola* (RAMUBE), powdery mildew (ERYSBE), *Cercospora beticola* (CERCBE)	Normal downward spraying	After BBCH 31 till 49	A)1-2 B)1-2	14	A) 0.250 L/ha B) 0.500 L/ha	a) 0.125 kg as/ha b) 0.250 kg as/ha	100-400	21		
6	DE	Sugar beet/ fodder beet BEAVA *Beta vulgaris*	F	Rust (UROMBE), *Ramularia beticola* (RAMUBE), powdery mildew (ERYSBE), *Cercospora beticola* (CERCBE)	Normal downward spraying	After BBCH 31 till 49	A) 1-2 B) 1-2	14	A) 0.200-0.250 L/ha B) 0.400-0.500 L/ha	A) 0.100-0.125 kg as/ha b) 0.200-0.250 kg as/ha	100-400	21		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Use-No. *	**Member state(s)**	**Crop and/ or situation** (crop destination / purpose of crop)	**F, Fn, Fnp G, Gn, Gnp 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, other dose rate expression, dose range (min-max)	**zRMS Conclusion (efficacy)**
					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			
7	CZ, BE, DE	Winter oilseed rape BRSNW *Brassica napus*	F	*Phoma lingam* (LEPTMA), *Alternaria brassicae* (ALTEBA), *Sclerotinia sclerotiorum* (SCLESC), *Erysiphe cruciferarum* (ERYSCR) *Pyrenopeziza brassicae* (PYRPBR)	Normal downward spraying	BBCH 19-69	A) 1-2 B) 1-2	14	A) 0.250 L/ha B) 0.500 L/ha	A)0.125 kg as/ha B) 0.250 kg as/ha	100-400	56	Max. 1 application in autumn	
8	NL	Winter oilseed rape BRSNW *Brassica napus*	F	*Phoma lingam* (LEPTMA), *Alternaria brassicae* (ALTEBA), *Sclerotinia sclerotiorum* (SCLESC), *Erysiphe cruciferarum* (ERYSCR) *Pyrenopeziza brassicae* (PYRPBR)	Normal downward spraying	BBCH 19-69	A) 1-2 B) 1-2	14	A) 0.250 L/ha B) 0.500 L/ha	a) 0.125 kg as/ha b) 0.250 kg as/ha	100-400	56	Application timing according to NL-specific conditions	
9	CZ, BE, DE, NL	Spring oilseed rape BRSNS *Brassica napus spring*	F	*Phoma lingam* (LEPTMA), *Alternaria brassicae* (ALTEBA), *Sclerotinia sclerotiorum* (SCLESC), *Erysiphe cruciferarum* (ERYSCR) *Pyrenopeziza brassicae* (PYRPBR)	Normal downward spraying	BBCH 19-69	A) 1-2 B) 1-2	14	A) 0.250 L/ha B) 0.500 L/ha	a) 0.125 kg as/ha b) 0.250 kg as/ha	100-400	56	Max. 1 application before BBCH 21	

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

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

Column 15: zRMS conclusion.

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

3.2 Efficacy data (KCP 6)

Introduction

This document summarises the information related to the efficacy of the plant protection product GLOB1911F, further referred to as Difenoconazole 500 SC, containing the active substance difenoconazole, which is included into Annex I of Directive 91/414 (2008/69/EC). The SANCO report for Difenoconazole (Sanco/10518/2005 rev. 5) is considered to provide the relevant review information or a reference to where such information can be found. This product is a new formulation of the existing product Difenoconazole 250 EC/Difcor 250 EC of Globachem NV and thus is written as a bridging dossier between the old and the new formulation. Additionally trials are provided for the countries where not all requested uses are registered for the product which is bridged to.
The Annex I Inclusion Directive for difenoconazole (2008/69/EC) provides specific provisions under Part B which need to be considered by the applicant in the preparation of their submission and by the MS prior to granting an authorisation:

For the implementation of the uniform principles of Annex VI, the conclusions of the review report on Difenoconazole, and in particular Appendices I and II thereof, as finalised in the Standing Committee on the Food Chain and Animal Health on 14/04/2003 shall be taken into account. In this overall assessment:

There are no points related to efficacy to which Member States must pay particular attention to.

Appendix 1 of this document contains the list of references included in this document for support of the evaluation.
Appendix 2 of this document is the table of intended uses for Difenoconazole 500 SC.
Appendix 3 of this document contains the GEP Certificates of the different laboratories.

Description of active substances

The active substance difenoconazole is an old active substance registered originally by Syngenta in most of the EU countries.

Mode of action

Difenoconazole is a systemic fungicide used for long-lasting preventative and curative broad-spectrum for use on sugar beets, potatoes, oilseed rape, cereal, fruit and vegetables against powdery mildew, rust, scab and leaf spots. It acts by interference with the ergosterol biosynthesis in target fungi by inhibition of the C-14-demethylation of sterols, which leads to morphological and functional changes of the fungal cell membrane. Absorbed by the leaves, with acropetal and strong translaminar translocation.

Table 3.2-1 Details of the active substance in Difenoconazole 500 SC

Active substance	**Difenoconazole**
Concentration	500 g/L
Chemical group	Azoles
Mode of action	Inhibition of C14-demethylase in sterol biosynthesis
Biological action	Cell membrane damage

Description of the plant protection product

Information on the detailed composition can be found in the confidential dossier of this submission (Registration Report - Part C).

Difenoconazole 500 SC contains 500 g/L of the active substance difenoconazole and is formulated as a suspension concentrate (SC). It is used as a broad-spectrum fungicide on sugar beets, oilseed rape and potatoes.

Difenoconazole 500 SC is not explosive, oxidising or flammable. Accelerated and shelf-life storage testing showed that the active ingredient and other technical parameters remain stable on storage, suggesting a stability of at least 2 years at ambient temperature. Its technical properties are such that no particular problems are to be expected when Difenoconazole 500 SC is used as recommended.

Table 3.2-2 Simplified table of currently registered uses and requested uses for Difenoconazole 500 SC

Uses		**Member State**	**Requested rate(s)**	**Comments / Other relevant details on GAPs**
Crop(s)	**Target(s)**			
Potato SOLTU	*Alternaria* spp.	PL, BE, CZ, DE, NL	0.25 L/ha	1-4 applications per season BBCH 40-89
Sugar beet BEAVA	Rust (UROMBE), *Ramularia beticola* (RAMUBE), powdery mildew (ERYSBE), *Cercospora beticola* (CERCBE)			1-2 apllications per season BBCH 31-49
Winter oilseed rape BRSNW	*Phoma lingam* (LEPTMA), *Alternaria brassicae* (ALTEBA), *Sclerotinia sclerotiorum* (SCLESC), *Erysiphe cruciferarum* (ERYSCR), *Pyrenopeziza brassicae* (PYRPBR)			1-2 applications BBCH 19-69
Spring oilseed rape BRSNS				

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

Description of the target pests
Below in Table 3.2-3 a list of all pests mentioned in this dossier is shown.

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

EPPO code	Scientific name
ALTEBA	*Alternaria brassicae*
ALTESO	*Alternaria solani*
CERCBE	*Cercospora beticola*
COMPR	*Commelina prostrata*
ERYSBE	*Erysiphe betae*
ERYSCR	*Erysiphe cruciferarum*
LEPTMA	*Plenodomus lingam*
PYRPBR	*Pyrenopeziza brassicae*
RAMUBE	*Ramularia beticola*
SCLESC	*Sclerotinia sclerotiorum*
UROMBE	*Uromyces betae*

The weed efficacy scale used in this dossier and the status of all intended uses are shown in Table 3.2-4 and Table 3.2-5 below.

Table 3.2-4 Efficacy scale

Weed species susceptibility	Level of control
Control (C)	> 80%
Partial/moderate control (MC)	60 - 80 %
Some control (SC)	40 - 60 %

Table 3.2-5 Major / minor status of intended uses (for all cMS and zRMS).

Crop and/or situation	Crop status		Pests or group of pests controlled	Pest status	
	Major	minor		Major	minor
Sugar beet BEAVA	PL, BE, CZ, DE, NL	-	Fungal diseases	PL, BE, CZ, DE, NL	-
Potato SOLTU		-			-
Oilseed rape BRSNN		-			-

Compliance with the Uniform Principles

All data submitted in this Biological assessment dossier are in compliance with the Uniform Principles.

Information on trials submitted (3.2 Efficacy data)

All trials presented in this dossier were carried out by the applicant, the number of trials is presented in Table 3.2-6 below. Note that the final column denotes for which part of the dossier the trials are used.

The name Difcor 250 EC is used as a collective name for all identical products containing 250 g/L difenoconazole in an EC formulation (Narita 250 EC, Difure solo and Difcor 250 EC), which are already registered in a lot of countries, but can have different names for different uses in different countries. The list of individual trials is presented under 3.2.3 Efficacy tests.

Table 3.2-6 Presentation of trials (efficacy trials, preliminary trials...)

Crop(s)*	Target(s)*	Country	Years	Type of trial**	Number of trials (number of valid trials)	GEP, non-GEP, official***	Comments (any other relevant information)
BEAVA	UROMBE, CERCBE, RAMUBE	FR	2011	E, MED	6	GEP	Efficacy trials for Difcor 250 EC
BRSNW	SCLESC, ALTEBA, LEPTMA	SK	2010	E, MED	2	GEP	
		PL	2009-2011	E, MED	11	GEP	
		UK	2009-2010	E, MED	2	GEP	
		FR	2010	E, MED	6	GEP	
		DE	2010-2011	E, MED	3	GEP	
NORTH-EAST					**11**		
MARITIME					**19**		
BEAVA	CERCBE, ERYSBE, RAMUBE, UROMBE	CZ	2019	E, MED	1	GEP	Bridging dossier for registration of Difenoconazole 500 SC
		DE	2019	E, MED	1	GEP	
		UK	2019	E, MED	2	GEP	
		PL	2019	E, MED	2	GEP	
BRNSW	ALTEBA, ERYSCR, PYRPBR, SCLESC	CZ	2019	E, MED	1	GEP	
		DE	2019	E, MED	1	GEP	
		FR	2019	E, MED	1	GEP	
		UK	2019	E, MED	2	GEP	
		PL	2019	E, MED	1	GEP	
SOLTU	ALTESO	CZ	2018	E, MED	1	GEP	
		DE	2018	E, MED	1	GEP	
		NL	2018-2019	E, MED	3	GEP	
		BE	2019	E, MED	1	GEP	
		SE	2019	E, MED	1	GEP	
		PL	20118-2019	E, MED	5	GEP	
NORTH EAST					**7**		
MARITIME					**17**		

* 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 3.2-7 Presentation of reference standards used in trials (efficacy trials, preliminary trials...)

Crop	Reference standard	Country(ies) where the product is registered (1)	Registration number	Active substance(s)	Formulation		Registered application rate(3)	Application rate in trials (per treatment)	Remark(4)
					Type(2	Conc. of a.s.			
BEAVA	Score	FR	8800841	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	Original registration of Difcor 250 EC
BRNSW	Horizon	SK	99-02-0486	Tebuconazole	EW	250 g/L	1 L/ha	1 L/ha	
	Horizon 250 EW	PL	R51/53	Tebuconazole	EW	250 g/L	1-1.25 L/ha	1-1.25 L/ha	
	Plover	UK	17288	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
	Sunorg PRO	FR	2010326	Metconazole	SC	90 g/L	0.8 L/ha	0.8 L/ha	
	Toprex 375 SC	PL	R-47/2008	Difenoconazole Paclobutrazole	SC	250 g/L 125 g/L	0.5 L/ha	0.5 L/ha	
	Score	DE	024353-00	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
	Caramba	DE	024487-00	Metconazole	EC	60 g/L	1.5 L/ha	1.5 L/ha	
		UK	15337	Metconazole	EC	60 g/L	1.2 L/ha	1.2 L/ha	
BEAVA	Score	DE	024353-00	Difenoconazole	EC	250 g/L	0.4 L/ha	0.4 L/ha	Bridging dossier
	ILA 250 EC	CZ	5274-4	Difenoconazole	EC	250 g/L	0.4 L/ha	0.4 L/ha	
	Difure Pro	UK	17303	Difenoconazole Propiconazole	EC	150g/L 150 g/L	0.6 L/ha	0.6 L/ha	
	Dafne 250 EC	PL	R74/2016	Difenoconazole	EC	250 g/L	0.4 L/ha	0.4 L/ha	
	Difure Solo*	CZ	5803-0	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
	Difcor 250 EC	PL	R938-2019d	Difenoconazole	EC	250 g/L	04 L/ha	0.4 L/ha	
BRNSW	Difcor 250 EC	FR	2060002	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
		PL	R938-2019d	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
		UK	13917	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
		CZ	4747-0	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
	Sirena EC	DE	024487-62	Metconazole	EC	60 g/L	1.5 L/ha	1.5 L/ha	
SOLTU	Narita*	NL	14307	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
		BE	10297P/B	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
		SE	5373	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
		DE	008025-00	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
		CZ	5111-0	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 L/ha	
	Narita 250 EC*	PL	R938-2019d	Difenoconazole	EC	250 g/L	0.5 L/ha	0.5 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.).
*Product identical to Difcor 250 EC

3.2.1 Preliminary tests (KCP 6.1)

Difenoconazole has been widely and successfully used in plant protection practice in many European countries for many years. The properties of this active substance and the performance of its formulations are well known and practically tested.
Providing preliminary tests is not regarded essential for this submission.

Comments of zRMS:	Acceptable. No further information is required.

3.2.2 Minimum effective dose tests (KCP 6.2)

For the minimum effective dose the applicant relies on the already registered Difcor 250 EC (Difure Solo, Narita). The additional trials provided in sections 3.2.3.1 and **Błąd! Nie można odnaleźć źródła odwołania.** for the use on sugar beet and oilseed rape, respectively, are intended for countries where these uses are not yet registered for the 250 EC formulation. The specific information that is relied on per crop and per country is summarized below.

For the use on **potatoes** reference is made to the dossier of Narita (250 EC), which is registered in all countries where registration of Difenoconazole 500 SC is requested.

For the use on **sugar beets** in Poland, Belgium, the Czech Republic and the Netherlands reference is made to the dossier of Difcor 250 EC (PL, BE) and Difure Solo (CZ, NL). For Germany the applicant relies on the bridging trials provided under section 3.2.3.1. These trials demonstrate the similarity between of Difcor 250 EC and the product Score from Syngenta in for example France (registered dose rate of 0.5 L/ha), which is also registered in Germany (reg. no. 024353). However, in Germany Score is registered for 2 applications of 0.4 L/ha. Consequently the requested dose rate for the use of Difenoconazole 500 SC (2 applications) on sugar beets in Poland, Belgium, the Czech Republic and the Netherlands is 0.25 L/ha and is 0.2-0.25 L/ha in Germany. For Germany the efficacy of lower rate of 0.2 L/ha is demonstrated in the Polish bridging trials (KCP 6.2-51 and 52), which are summarized in Table 3.2-42 (dose rates marked in grey).

For the use on **winter/spring oilseed rape** in Poland, Belgium and the Czech Republic reference is made to the dossier of Difcor 250 EC (PL, BE) and Difure Solo (CZ). For Germany and the Netherlands reference is made to the trials presented under section 3.2.3.2 as the use on OSR is not yet approved for Difcor 250 EC in these countries. To support the use on oilseed rape both trials from the Maritime EPPO Zone and Poland are used. From those trial results the Minimum effective dose for Difcor 250 EC is demonstrated in Table 3.2-8 and Table 3.2-9 below.

Table 3.2-8 Efficacy of Difcor 250 EC at 0.3 L/ha and 0.5 L/ha against SCLESC and ALTEBA

Disease	Number of trials	Timing (DA-A)	Part rated	Difcor 250 EC 0.3 L/ha			Difcor 250 EC 0.5 L/ha		
				Mean	Min	Max	Mean	Min	Max
SCLESC	10	43-64	STEM	74.2	30.60	100.00	79.82	36.50	100.00
ALTEBA	8	36-75	POD	82.99	69.05	100.00	86.89	96.05	100.00

Table 3.2-9 Efficacy of Difcor 250 EC at 0.3 L/ha and 0.5 L/ha against LEPTMA

Disease	Number of trials	Timing (DA-B)	Part rated	Difcor 250 EC 0.3 L/ha			Difcor 250 EC 0.5 L/ha		
				Mean	Min	Max	Mean	Min	Max
LEPTMA	4	POD	58-69	78.77	66.67	86.72	87.77	77.50	92.74

	4	LEAF	58-69	80.06	58.75	69.17	87.49	73.75	92.29

For this new use on oilseed rape in Germany and the Netherlands it should be noted that Narita is already registered at a dose rate of 0.5 L/ha for the use on potatoes in both countries and for the use on sugar beet in the Netherlands. Therefore the applicant believes that the information provided is sufficient to accept its use on oilseed rape. Additionally, Poland is a neighboring country of Germany, therefore the Polish trials are also valid for Germany. Consequently the requested dose rate for the use Difenoconazole 500 SC (2 applications) on oilseed rape in Poland, Belgium, the Czech Republic, Germany and the Netherlands is 0.25 L/ha.

Comments of zRMS:	No specific minimum effective dose trial has been carried out. However, based on results from the bridging trials provided under section 3.2.3., the dose of 0,25 l/ha of Difcor 500 SC provided the optimum overall control and should be considered as an effective solution against the claimed major diseases. Thus, the proposed rate of 0.25 l/ha should be considered the minimum effective dose to deliver broad spectrum control under a wide range of environmental conditions.

3.2.3 Efficacy tests (KCP 6.2)

As explained above, Difenoconzole 500 SC is similar to Difcor 250 EC which is currently registered under different brand names in different countries and/or different uses.
In Poland, Belgium and the Czech Republic it is registered for use on rapeseed (Difcor 250 EC), sugar beet (PL, BE: Difcor 250 EC; CZ: Difure Solo) and potatoes (PL: Narita 250 EC; BE, CZ: Narita).
In the Netherlands it is registered for the use on sugar beet (Difure Solo) and potatoes (Narita).
In Germany it is only registered for use on potatoes (Narita).

This document provides bridging trials to demonstrate the equivalence of Difenoconazole 500 SC and Difcor 250 EC and requests registration of Difenoconazole 500 SC for use on all crops (rapeseed, sugar beet and potato) in Poland; Belgium, the Czech Republic, Germany and the Netherlands.

To acquire registration of the additional uses in Germany (sugar beet and oilseed rape) and the Netherlands (oilseed rape) efficacy trials for Difcor 250 EC are included in section 3.2.3.1 (sugar beet) and section 3.2.3.2 (oilseed rape) which are in support of the registration of Difenoconazole 500 SC, as demonstrated by the provided bridging trials.

3.2.3.1 Efficacy trials for Difcor 250 EC for the use on sugar beet

In total, 6 efficacy trials were submitted to demonstrate the efficacy Difcor 250 EC for the use on sugar beet. These trials were all carried out in 2011 by GEP certified research institutions in France, which is part of the Maritime EPPO Zone. These trials are included in this dossier to allow for the registration of the use of Difenoconazole 500 SC on sugar beets in Germany.
The 6 trials presented below are considered bridging trials to demonstrate the comparability to Score 250 EC, which is registered in many countries in the MAR zone like e.g. France and Germany (reg. nr. 024353-00).
The trial methodology, crop species, trial site information, application details, location and soil type are presented in

Table 3.2-10 and Table 3.2-11.

Table 3.2-10 Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/152 (4), 1/135 (4), 1/181 (4)
	Specific guidelines	CEB No. 221, EPPO 1/1(4)
Experimental design	Plot design	Field trials
	Number of replications	4
Crop	Trials per crop	6
	Varieties per crop	5
Application	Crop stage (BBCH) at application	1st application: 36-46 2nd application: 39-55
	Applications	1 or 2
	Spray volumes	200 L/ha
Assessment	Assessment types	1) Phytotoxicity 2) Efficacy against fungal diseases 3) Yield (quality)
	Assessment dates	1) From 0 DA-A 2) 0-61 DA-B 3) Harvest
	Field / Greenhouse...	Field
	GEP	All trials were performed according to GEP

Table 3.2-11 Summary form of information concerning trial sites and application details

Type of trials effectiveness
Identity of the product under test DIFCOR 250 EC (EC formulation of 250 g/L difenoconazole)
Crop: Sugar beet
Harmful organism Fungal diseases (UROMBE, CERCBE, RAMUBE)
Responsible body for reporting trial See second column
Date of submission December 2011

Trial reference	Testing unit	Trial location Soil type	Test method Plot size	Application details				Remarks (variety)
				Appl. Date(s)	Method, amount	Applic. technique	Growth stage crop at appl.	
11 07 F06 KCP 6.2-11	Essais +	Ransart (FR) Silt loam	EPPO 1/1 (4), CEB No. 221 17.5 m²	15/07/2011 10/08/2011	Overall spray, 200 L/ha	Spray boom	BBCH 42, 55	Cheyenne
11 07 F07 KCP 6.2-12	Essais +	Blairville (FR) Silt loam	EPPO 1/1 (4), CEB No. 221 14 m²	19/07/2011 10/08/2011	Overall spray, 200 L/ha	Spray boom	BBCH 42, 55	Python
S11-02726-01 KCP 6.2-13	Eurofins Agroscience Services	Dambron (FR) Clay loam	EPPO 1/152 (3), 1/1 (4), 1/181 (3), 1/135 (3), CEB No. 221 24 m²	10/10/2011 05/09/2011	Overall spray, 200 L/ha	Spray boom	BBCH 45, 48	Brita
S11-02726-02 KCP 6.2-14	Eurofins Agroscience Services	Courcelles (FR) Clay loam	EPPO 1/152 (3), 1/1 (4), 1/181 (3), 1/135 (3), CEB No. 221 24 m²	12/08/2011 05/09/2011	Overall spray, 200 L/ha	Spray boom	BBCH 36, 49	Brita
S11-02726-03 KCP 6.2-15	Eurofins Agroscience Services	Scherwiller (FR) Loamy sand	EPPO 1/152 (3), 1/1 (4), 1/181 (3), 1/135 (3), CEB No. 221 24 m²	26/07/2011 /	Overall spray, 200 L/ha	Spray boom	BBCH 46	Zoulou
S11-02726-04 KCP 6.2-16	Eurofins Agroscience Services	Appilly (FR) Loamy silt	EPPO 1/152 (3), 1/1 (4), 1/181 (3), 1/135 (3), CEB No. 221 24.75 m²	29/06/2011 17/08/2011	Overall spray, 200 L/ha	Spray boom	BBCH 39, 39	Belino

Details of the formulations tested are provided in Table 3.2-12 details of application rates are provided in Table 3.2-13.

Table 3.2-12 Formulation included in the efficacy trials

Product	Active substance	Active substance content	Formulation type
Difcor 250 EC = Difenoconazole 250 EC	Difenoconazole	250 g/L	EC
Score 250 EC	Difenoconazole	250 g/L	EC

Table 3.2-13 Application rates

Trial reference number	Product	Application rate	
		kg as/ha	Product kg-L/ha
KCP 6.2-11-16	Difcor 250 EC	75	0.3
	Difcor 250 EC	100	0.4
	Difcor 250 EC	125	0.5
	Score 250 EC	125	0.5

Trial results

The following tables summarize the data gathered in the efficacy trials per disease.

Table 3.2-14 Efficacy of Difcor 250 EC against UROMBE (PESSEV)

			6.2-11	6.2-12	6.2-13	6.2-14	6.2-15	Summary					
Pest Code			UROMBE	UROMBE	UROMBE	UROMBE	UROMBE						
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA	BEAVA						
Part Rated			LEAF	LEAF	LEAF	LEAF	LEAF						
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV	PESSEV						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK						
Trt-Eval Interval			0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			10.80	2.80	3.15	1.14	40.08	5	11.59	1.14	40.08	3.15	16.36
Difcor 250 EC	0.15	L/ha	68.40	83.80	75.80	99.20	96.20	5	84.68	68.40	99.20	83.80	13.12
Difcor 250 EC	0.25	L/ha	76.30	77.90	54.00	87.50	99.40	5	79.02	54.00	99.40	77.90	16.75
Difcor 250 EC	0.5	L/ha	74.90	72.20	79.80	98.30	96.60	5	84.36	72.20	98.30	79.80	12.27
Score	0.5	L/ha	79.90	78.70	72.20	97.30	98.20	5	85.26	72.20	98.20	79.90	11.78
Trt-Eval Interval			12 DA-B	13 DA-B	15 DA-B	15 DA-B	20 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			22.80	5.80	26.63	3.51	178.00	5	47.35	3.51	178.00	22.80	73.74
Difcor 250 EC	0.15	L/ha	67.40	47.40	73.00	70.10	97.90	5	71.16	47.40	97.90	70.10	18.02
Difcor 250 EC	0.25	L/ha	60.10	67.40	73.50	86.80	99.80	5	77.52	60.10	99.80	73.50	15.85
Difcor 250 EC	0.5	L/ha	68.30	77.70	81.20	85.10	98.90	5	82.24	68.30	98.90	81.20	11.20
Score	0.5	L/ha	72.90	74.70	70.40	89.00	98.70	5	81.14	70.40	98.70	74.70	12.19
Trt-Eval Interval			28 DA-B	28 A-B			33 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			28.10	26.20			23.73	3	26.01	23.73	28.10	26.20	2.19
Difcor 250 EC	0.15	L/ha	60.80	76.70			94.50	3	77.33	60.80	94.50	76.70	16.86
Difcor 250 EC	0.25	L/ha	68.80	82.60			96.80	3	82.73	68.80	96.80	82.60	14.00
Difcor 250 EC	0.5	L/ha	68.80	86.80			96.90	3	84.17	68.80	96.90	86.80	14.23
Score	0.5	L/ha	72.60	86.50			92.80	3	83.97	72.60	92.80	86.50	10.34
Trt-Eval Interval							61 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)							17.69	1	17.69	17.69	17.69	17.69	
Difcor 250 EC	0.15	L/ha					29.30	1	29.30	29.30	29.30	29.30	
Difcor 250 EC	0.25	L/ha					22.50	1	22.50	22.50	22.50	22.50	
Difcor 250 EC	0.5	L/ha					20.10	1	20.10	20.10	20.10	20.10	
Score	0.5	L/ha					25.70	1	25.70	25.70	25.70	25.70	

Table 3.2-15 Efficacy of Difcor 250 EC against UROMBE (PESINC)

			6.2-11	6.2-12	6.2-13	6.2-14	6.2-16	Summary					
Pest Code			UROMBE	UROMBE	UROMBE	UROMBE	UROMBE						
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA	BEAVA						
Part Rated			LEAF	LEAF	LEAF	LEAF	LEAF						
Rating Type			PESINC	PESINC	PESINC	PESINC	PESINC						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK						
Trt-Eval Interval			0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			87.80	71.30	35.00	71.25	76.25	5	68.32	35.00	87.80	71.30	19.81
Difcor 250 EC	0.15	L/ha	23.92	66.62	71.40	89.50	75.40	5	65.37	23.92	89.50	71.40	24.69
Difcor 250 EC	0.25	L/ha	23.69	56.10	71.40	59.60	83.60	5	58.88	23.69	83.60	59.60	22.44
Difcor 250 EC	0.5	L/ha	35.65	47.41	78.60	86.00	72.10	5	63.95	35.65	86.00	72.10	21.46
Score	0.5	L/ha	38.50	59.61	71.40	84.20	72.10	5	65.16	38.50	84.20	71.40	17.26
Trt-Eval Interval			12 DA-B	13 DA-B	15 DA-B	15 DA-B	20 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			94.00	74.50	52.50	73.75	100.00	5	78.95	52.50	100.00	74.50	18.82
Difcor 250 EC	0.15	L/ha	19.15	30.87	50.00	35.60	60.00	5	39.12	19.15	60.00	35.60	16.07
Difcor 250 EC	0.25	L/ha	10.64	37.58	50.00	69.20	90.00	5	51.48	10.64	90.00	50.00	30.25
Difcor 250 EC	0.5	L/ha	21.81	51.68	52.40	69.20	70.00	5	53.02	21.81	70.00	52.40	19.53
Score	0.5	L/ha	21.81	46.31	47.60	74.60	68.80	5	51.82	21.81	74.60	47.60	20.95
Trt-Eval Interval			28 DA-B	28 A-B			33 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			100.00	99.00			96.25	3	98.42	96.25	100.00	99.00	1.94
Difcor 250 EC	0.15	L/ha	9.50	11.62			46.80	3	22.64	9.50	46.80	11.62	20.95
Difcor 250 EC	0.25	L/ha	9.50	22.22			71.40	3	34.37	9.50	71.40	22.22	32.69
Difcor 250 EC	0.5	L/ha	13.00	32.83			48.10	3	31.31	13.00	48.10	32.83	17.60
Score	0.5	L/ha	13.00	27.27			41.60	3	27.29	13.00	41.60	27.27	14.30
Trt-Eval Interval							61 DA-B						
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (%)							100.00	1	100.00	100.00	100.00	100.00	
Difcor 250 EC	0.15	L/ha					5.00	1	5.00	5.00	5.00	5.00	
Difcor 250 EC	0.25	L/ha					3.80	1	3.80	3.80	3.80	3.80	
Difcor 250 EC	0.5	L/ha					1.30	1	1.30	1.30	1.30	1.30	
Score	0.5	L/ha					11.30	1	11.30	11.30	11.30	11.30	

Table 3.2-16 Efficacy of Difcor 250 EC against CERCBE in trial KCP 6.2-14

			6.2-14							
Pest Code			CERCBE	CERCBE	CERCBE	CERCBE	CERCBE	CERCBE	CERCBE	CERCBE
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA	BEAVA	BEAVA	BEAVA	BEAVA
Part Rated			LEAF	LEAF	LEAF	LEAF	LEAF	LEAF	LEAF	LEAF
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV	PESINC	PESINC	PESINC	PESINC
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK
Trt-Eval Interval			0 DA-B	15 DA-B	32 DA-B	50 DA-B	0 DA-B	15 DA-B	32 DA-B	50 DA-B
Name	Rate	Unit								
UNTREATED (%)			1.10	2.65	2.71	0.79	38.75	38.26	58.75	35.00
Difcor 250 EC	0.15	L/ha	62.50	83.50	77.90	55.60	22.60	81.20	36.20	39.30
Difcor 250 EC	0.25	L/ha	70.50	78.80	87.10	63.50	48.40	55.20	48.90	46.40
Difcor 250 EC	0.5	L/ha	75.00	79.20	80.20	50.80	51.60	64.30	31.90	21.40
Score	0.5	L/ha	59.10	90.10	79.30	39.70	38.70	80.50	31.90	32.10

Table 3.2-17 Efficacy of Difcor 250 EC against RAMUBE in trial KCP 6.2-13

			6.2-13			
Pest Code			RAMUBE	RAMUBE	RAMUBE	RAMUBE
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA
Part Rated			LEAF	LEAF	LEAF	LEAF
Rating Type			PESSEV	PESSEV	PESINC	PESINC
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK
Trt-Eval Interval			0 DA-B	15 DA-B	0 DA-B	15 DA-B
Name	Rate	Unit				
UNTREATED (%)			1.14	2.00	37.50	45.00
Difcor 250 EC	0.15	L/ha	51.60	66.30	46.70	50.00
Difcor 250 EC	0.25	L/ha	49.50	43.80	43.30	44.40
Difcor 250 EC	0.5	L/ha	56.00	64.40	46.70	41.70
Score	0.5	L/ha	69.20	38.30	46.70	38.90

The table below shows the orthogonal comparison between Difcor 250 EC and Score at the 0.5 L/ha dose rate. The resulting amount of control provided by Difcor 250 EC is given in the final column. For the efficacy scale reference is made to Table 3.2-4.

Table 3.2-18 Orthogonal comparison and control provided by Difcor 250 EC against each disease in sugar beet trials

Target	Part	Rating	Timing (DA-B)	n	Infestation in the untreated control (unit)			% control						No of trials >. <. = compared to standard(s) min >5% diff.	Control provided by Difcor 250 EC
								Difcor 250 EC 0.5 L/ha			Score 0.5 L/ha				
					Mean	Min	Max	Mean	Min	Max	Mean	Min	Max		
UROMBE	LEAF	PESSEV	0	5	5.00	11.59	1.14	84.36	72.20	98.30	85.26	72.20	98.20	1x >, 3x =, 1x <	C
			12-20	5	47.35	3.51	178.00	82.24	68.30	98.90	81.14	70.40	98.70	1x >, 4x =	C
			28-33	3	26.01	23.73	28.10	84.17	68.80	96.90	83.97	72.60	92.80	3x =	C
			61	1	17.69	-	-	26.56	-	-	25.70	-	-	1x <	-
		PESINC	0	5	68.32	35.00	87.80	63.95	35.65	86.00	65.16	38.50	84.20	1x >, 3x =, 1x <	MC
			12-20	5	78.95	52.50	100.00	53.02	21.81	70.00	51.82	21.81	74.60	1x >, 4x =	SC
			28-33	3	98.42	96.25	100.00	31.31	13.00	48.10	27.29	13.00	41.60	1x >, 2x =	-
			61	1	100.00	-	-	1.30	-	-	11.30	-	-	1x <	-
CERCBE	LEAF	PESSEV	0	1	1.10	-	-	75.00	-	-	59.10	-	-	1x >	MC
			15	1	2.65	-	-	79.20	-	-	90.10	-	-	1x <	MC
			32	1	2.71	-	-	80.20	-	-	79.30	-	-	1x =	C
			50	1	0.79	-	-	50.80	-	-	39.70	-	-	1x >	SC
		PESINC	0	1	38.75	-	-	51.60	-	-	38.70	-	-	1x >	SC
			15	1	38.26	-	-	64.30	-	-	80.50	-	-	1x <	MC
			32	1	58.75	-	-	31.90	-	-	31.90	-	-	1x =	-
			50	1	35.00	-	-	21.40	-	-	32.10	-	-	1x <	-
RAMUBE	LEAF	PESSEV	0	1	1.14	-	-	56.00	-	-	69.20	-	-	1x <	SC
			15	1	2.00	-	-	64.40	-	-	38.30	-	-	1x >	MC
		PESINC	0	1	37.50	-	-	46.70	-	-	46.70	-	-	1x =	SC
			15	1	45.00	-	-	41.70	-	-	38.90	-	-	1x =	SC

Conclusion

In accordance with the EPPO guideline PP1/226(1) all 6 trials were performed in the North of France as bridging trials in which Difcor 250EC and the reference product Score (difenoconazole 250 g/L EC) were applied at a dose rate of 0.5 L/ha. This reduced number of trials is therefore acceptable.

No trial against powdery mildew was submitted but it is judged acceptable for the following reasons:
- Triazoles are known to be effective against this disease in general.
- The efficacy trials were aimed at bridging the efficacy data from Score 250 EC (which is known to be effective against powdery mildew) to Difcor 250 EC which is proven by the submitted trials.
- The use of Difcor 250 EC on sugarbeet is targeted at a complex of foliar diseases, the efficacy against two diseases out of this complex is proven by the trials provided.
- trials against powdery mildew were conducted with Difenoconazole 500 SC

Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

3.2.3.2 Efficacy trials for Difcor 250 EC for use on oilseed rape

In total, 24 efficacy trials were submitted to demonstrate the efficacy of Difcor 250 EC for the use on oilseed rape. These trials were all carried out from 2009-2011 by GEP certified research institutions in Slovakia (South-East EPPO Zone), Poland (North-East EPPO Zone), the UK, France, Germany (Maritime EPPO Zone).
These trials were included in this dossier to allow for the registration of the use of Difenoconazole 500 SC on oilseed rape in Germany and the Netherlands.
The trial methodology, crop species, trial site information, application details, location and soil type are presented in Table 3.2-19 and Table 3.2-20.

Table 3.2-19 Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/152 (4), 1/135 (4), 1/181 (4)
	Specific guidelines	1/78 (3), CEB M 220, 1/153(2)
Experimental design	Plot design	Field trials
	Number of replications	4
Crop	Trials per crop	24
	Varieties per crop	19
Application	Crop stage (BBCH) at application	14-71
	Applications	1 or 2
	Spray volumes	200-300 L/ha
Assessment	Assessment types	1) Phytotoxicity 2) Efficacy against fungal diseases 3) Yield (quality)
	Assessment dates	1) From 0 DA-A 2) 0-98 DA-A 3) Harvest
	Field / Greenhouse...	Field
	GEP	All trials were performed according to GEP

Table 3.2-20 Summary form of information concerning trial sites and application details

Type of trials	effectiveness
Identity of the product under test	DIFCOR 250 EC (EC formulation of 250 g/L difenoconazole)
Crop:	Oilseed rape
Harmful organism	Fungal diseases (SCLESC, ALTEBA, LEPTMA)
Responsible body for reporting trial	See second column
Date of submission	December 2011

Trial reference	**Testing unit**	**Trial location** **Soil type**	**Test method** **Plot size**	**Application details**				**Remarks (variety)**
				Appl. Date(s)	**Method, amount**	**Applic. technique**	**Growth stage crop at appl.**	
22/F/2010RS KCP 6.2-21	Gemerprodukt Valice	Rimavská Sobota (SK) Moderate loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 12.38 m²	01/05/2010	Overall spray, 300 L/ha	Spray boom	BBCH 63	Jasper
28/F/2010 KCP 6.2-22	Gemerprodukt Valice	Valice (SK) Medium loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 24 m²	02/05/2010	Overall spray, 300 L/ha	Spray boom	BBCH 63	Ontario
25-01/2009 KCP 6.2-23	Agrostat Sp. z o.o.	Potarzyca (PL) Brunatna	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 21 m²	12/05/2009	Overall spray, 300 L/ha	Spray boom	BBCH 67	Digger
25-02/2009 KCP 6.2-24	Agrostat Sp. z o.o.	Nowa Wieś Zbąska (PL) Fine sand	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 21 m²	12/05/2009	Overall spray, 300 L/ha	Spray boom	BBCH 65	Libomir
25-03/2009 KCP 6.2-25	Agrostat Sp. z o.o.	Teresa (PL) Sandy clay	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 21 m²	12/05/2009	Overall spray, 300 L/ha	Spray boom	BBCH 67	Digger
25-04/2009 KCP 6.2-26	Agrostat Sp. z o.o.	Chwalęcin (PL) Fine clay loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 21 m²	14/05/2009	Overall spray, 300 L/ha	Spray boom	BBCH 65	Digger

25-18/2010 KCP 6.2-27	Agrostat Sp. z o.o.	Chwalęcin (PL) Silty sand	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 21 m²	05/05/2010	Overall spray, 300 L/ha	Spray boom	BBCH 63	Smart
25-19/2010 KCP 6.2-28	Agrostat Sp. z o.o.	Nowa Wieś Zbąska (PL) Sandy clay loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 21 m²	05/05/2010	Overall spray, 300 L/ha	Spray boom	BBCH 64	Libomir
25-20/2010 KCP 6.2-29	Agrostat Sp. z o.o.	Zborów (PL) Sandy clay loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 21 m²	11/05/2010	Overall spray, 300 L/ha	Spray boom	BBCH 64	Libomir
S10-01762-01 KCP 6.2-30a	Eurofins Agroscience Service	Gilberdyke (UK)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), CEB M 220 30 m²	03/06/2010	Overall spray, 200 L/ha	Spray boom	BBCH 65	Castille
S10-01762-02 KCP 6.2-30b	Eurofins Agroscience Servicess	Roinvilliers (FR)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), CEB M 220 30 m²	28/04/2010	Overall spray, 200 L/ha	Spray boom	BBCH 64	Alpaga
S10-01762-03 KCP 6.2-30c	Eurofins Agroscience Services	La Membrolle sur Choisille (FR)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), CEB M 220 45 m²	04/05/2010	Overall spray, 200 L/ha	Spray boom	BBCH 69	Catalana
S10-01762-04 KCP 6.2-30d	Eurofins Agroscience Services	Brossay (FR)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), CEB M 220 30 m²	04/05/2010	Overall spray, 200 L/ha	Spray boom	BBCH 68	Cabernet
S10-01762-05 KCP 6.2-30e	Eurofins Agroscience Services	St Porquier (FR)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), CEB M 220 30 m²	07/05/2010	Overall spray, 200 L/ha	Spray boom	BBCH 71	Coklico
S10-01762-06 KCP 6.2-30f	Eurofins Agroscience Services	Dollern (DE)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), CEB M 220 30 m²	05/05/2010	Overall spray, 200 L/ha	Spray boom	BBCH 65	Visby
CGG-11-8633-PL01 KCP 6.2-31	Agrostat Sp. z o.o.	Długa Wies (PL)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), 1/153 (2) 21 m²	18/10/2010 20/04/2011	Overall spray, 300 L/ha	Spray boom	BBCH 15, 32	Baros

CGG-11-8633-PL02 KCP 6.2-32	Agrostat Sp. z o.o.	Chwalecin (PL)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), 1/153 (2) 21 m²	06/10/2010 19/04/2011	Overall spray, 300 L/ha	Spray boom	BBCH 16, 32	Extend
CGG-11-8633-PL03 KCP 6.2-33	Agrostat Sp. z o.o.	Bedlno (PL)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), 1/153 (2) 21 m²	01/10/2010 19/04/2011	Overall spray, 300 L/ha	Spray boom	BBCH 14, 33	Californium
CGG-11-8633-PL04 KCP 6.2-34	Agrostat Sp. z o.o.	Makow (PL)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), 1/153 (2) 21 m²	01/10/2010 18/04/2011	Overall spray, 300 L/ha	Spray boom	BBCH 14, 33	Riband
10 OSR F GBM 001-07 KCP 6.2-35	SGS	Seevetal (DE) Loamy sand	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), 1/153 (2) 35 m²	07/10/2010 11/04/2011	Overall spray, 300 L/ha	Spray boom	BBCH 13-16, 37-39	NK Petrol
10 OSRR F GRM 002 KCP 6.2-36	SGS	Ville-sur-Retourne (FR)	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), 1/153 (2) 25 m²	04/11/2010 22/03/2011	Overall spray, 300 L/ha	Spray boom	BBCH 16, 52	Adriana
10 OSRR F GRM 004 KCP 6.2-37	SGS	Dange Saint Romain (FR) Clay loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3), 1/153 (2) 30 m²	26/10/2010 23/03/2011	Overall spray, 250 L/ha	Spray boom	BBCH 18; 52	Safran
S09-00934-01 KCP 6.2-39a	Eurofins Agroscience Services	Oederquart (DE) Clay loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 30 m²	21/09/2009 23/04/2010	Overall spray, 200 L/ha	Spray boom	BBCH 14; 54	Visby
S09-00934-02 KCP 6.2-39b	Eurofins Agroscience Services	Wilsic (UK) Sandy clay loam	EPPO 1/152(3), 1/181(3), 1/135(3), 1/78 (3) 30 m²	01/12/2009	Overall spray, 200 L/ha	Spray boom	BBCH 17	NK Bravour

Details of the formulations tested are provided in Table 3.2-21 details of application rates are provided in Table 3.2-22Table 3.2-13.

Table 3.2-21 Formulation included in the efficacy trials

Product	Active substance	Active substance content	Formulation type
Difcor 250 EC = Difenoconazole 250 EC	Difenoconazole	250 g/L	EC
Score	Difenoconazole	250 g/L	EC
Tebucur	Tebuconazole	250 g/L	EW
Difenoconazole 125 + Tebuconazole 250	Difenoconazole Tebuconazole	125 g/L 250 g/L	EW
Horizon (250 EW) = Folicur	Tebuconazole	250 g/L	EW
Plover	Difenoconazole	250 g/L	EC
Sunorg Pro	Metconazole	90 g/L	SC

Table 3.2-22 Application rates

Trial reference number	Product	Application rate	
		kg as/ha	Product kg-L/ha
KCP 6.2-21, 22	Difcor 250 EC	75	0.3
	Difcor 250 EC	125	0.5
	Horizon 250 EW	250	1
KCP 6.2-23-26	Difenoconazole 250 EC	75	0.3
	Difenoconazole 250 EC	125	0.5
	Difenoconazole 250 EC	175	0.7
	Difenoconazole 250 EC	250	1
	Horizon 250 EW	313	1.25
KCP 6.2-27-29	Difenoconazole 250 EC	125	0.5
	Difenoconazole 250 EC	175	0.7
	Horizon	313	1.25
	Toprex 375 SC	188	0.5
KCP 6.2-30	Difcor 250 EC	75	0.3
	Difcor 250 EC	125	0.5
	Difcor 250 EC	175	0.7
	Difcor 250 EC	250	1
	Sunorg PRO (FR)	72	0.8
	Folicur (UK, DE)	250	1
	Plover (UK)	125	0.5
KCP 6.2-31-34	Untreated	-	-
	Difenoconazole 250 EC	75	0.3
	Difenoconazole 250 EC	125	0.5
	Horizon (Appl. A)	250	1
	Horizon (Appl. AB)	187 + 250	0.75 + 1
	Toprex 375 SC	188	0.5
KCP 6.2-35	Difcor	75	0.3
	Difcor	125	0.5
	Difcor	175	0.7
	Difcor	250	1
	Score	125	0.5
	Folicur	375	1.5

Trial reference number	Product	Application rate	
		kg as/ha	Product kg-L/ha
KCP 6.2-36, 37	Difcor	75	0.3
	Difcor	125	0.5
	Difcor	175	0.7
	Difcor	250	1
	Sunorg PRO	54	0.6
KCP 6.2-39a	Untreated	-	-
	Difenoconazole 250 EC	75	0.3
	Difenoconazole 250 EC	125	0.5
	Difenoconazole 250 EC	175	0.7
	Difenoconazole 250 EC	250	1
	Caramba	72	1.2
KCP 6.2-39b	Untreated	-	-
	Difenoconazole 250 EC	75	0.3
	Difenoconazole 250 EC	125	0.5
	Difenoconazole 250 EC	175	0.7
	Difenoconazole 250 EC	250	1
	Caramba	90	1.5

Trial results

The following tables summarize the data gathered in the efficacy trials per disease and grouped by trials performed in the Maritime EPPO and trials applicable for Poland (including the Slovakian trials). However, in Table 3.2-29 (the overall summary) means are also calculated without these trials included. The overall summary is also shown in the tables with the results for the Maritime EPPO Zone.

Table 3.2-23 Efficacy of Difcor 250 EC against SCLESC in trials applicable for Poland

			6.2-21	6.2-22	6.2-23	6.2-24	6.2-25	6.2-26	6.2-27	6.2-28	6.2-29	Summary					
Pest Code			SCLESC	SCLESC	SCLESC	SCLESC	SCLESC	SCLESC	SCLESC	SCLESC	SCLESC						
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW						
Part Rated			STEM	STEM	STEM	STEM	STEM	STEM	STEM	STEM	STEM						
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK						
Trt-Eval Interval			64 DA-A	63 DA-A	57 DA-A	57 DA-A	52 DA-A	55 DA-A	65 DA-A	68 DA-A	57 DA-A						
Name	Rate	Unit										n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			47.20	44.50	15.88	11.69	11.78	12.45	33.00	45.44	31.30	9	28.14	11.69	47.20	31.30	15.41
Difcor 250 EC	0.3	L/ha	49.58	53.26	82.81	93.92	92.13	91.07				6	77.13	49.58	93.92	86.94	20.31
Difcor 250 EC	0.5	L/ha	61.65	65.39	91.77	98.40	96.44	98.21	87.96	89.36	68.46	9	84.18	61.65	98.40	89.36	14.81
Horizon 250	1	L/ha	62.50	67.64								2	65.07	62.50	67.64	65.07	3.63
Horizon 250	1.25	L/ha			99.40	99.77	100.00	99.58	96.24	97.91	83.97	7	96.70	83.97	100.00	99.40	5.77
Toprex 375	0.5	L/ha							93.33	95.21	82.41	3	90.32	82.41	95.21	93.33	6.91

			6.2-27	6.2-28	6.2-29							Summary					
Part Rated			POD	POD	POD												
Rating Type			PESSEV	PESSEV	PESSEV												
Rating Unit			%UNCK	%UNCK	%UNCK												
Trt-Eval Interval			65 DA-A	68 DA-A	57 DA-A												
Name	Rate	Unit										n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			5.00	3.50	5.00							3	4.50	3.50	5.00	5.00	0.87
Difcor 250 EC	0.5	L/ha	80.00	67.71	76.43							3	74.71	67.71	80.00	76.43	6.32
Horizon 250	1.25	L/ha	97.50	91.25	97.13							3	95.29	91.25	97.50	97.13	3.51
Toprex 375	0.5	L/ha	97.50	82.50	96.79							3	92.26	82.50	97.50	96.79	8.46

			6.2-27	6.2-28								Summary					
Part Rated			LEAF	LEAF													
Rating Type			PESSEV	PESSEV													
Rating Unit			%UNCK	%UNCK													
Trt-Eval Interval			65 DA-A	68 DA-A													
Name	Rate	Unit										n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			12.50	13.50								2	13.00	12.50	13.50	13.00	0.71
Difcor 250 EC	0.5	L/ha	79.17	81.25								2	80.21	79.17	81.25	80.21	1.47
Horizon 250	1.25	L/ha	91.67	96.25								2	93.96	91.67	96.25	93.96	3.24
Toprex 375	0.5	L/ha	91.67	92.50								2	92.09	91.67	92.50	92.09	0.59

Table 3.2-24 Efficacy of Difcor 250 EC against SCLESC in Maritime EPPO Zone + trials applicable for Poland

			6.2-30a	6.2-30b	6.2-30c	6.2-30d	Summary Maritime EPPO Zone						Summary trials applicable for Poland		Overall summary	
Pest Code			SCLESC	SCLESC	SCLESC	SCLESC										
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW										
Part Rated			STEM	STEM	STEM	STEM										
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV										
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK										
Trt-Eval Interval			43 DA-A	63 DA-A	57 DA-A	52 DA-A										
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev	n	Mean	n	Mean
UNTREATED (%)			0.41	0.50	7.15	5.50	4	3.39	0.41	7.15	3.00	3.46	9	28.14	13	20.52
Difcor 250 EC	0.3	L/ha	100.00	100.00	30.60	48.60	4	69.80	30.60	100.00	74.30	35.64	6	77.13	10	74.20
Difcor 250 EC	0.5	L/ha	100.00	100.00	36.50	49.80	4	71.58	36.50	100.00	74.90	33.27	9	84.18	13	80.30
Horizon 250	1	L/ha	100.00				1	100.00	100.00	100.00	100.00		2	65.07	3	76.71
Horizon 250	1.25	L/ha											7	96.70	7	96.70
Toprex 375	0.5	L/ha											3	90.32	3	90.32
Plover	0.5	L/ha	100.00				1	100.00	100.00	100.00	100.00				1	100.00
Sunorg Pro	0.8	L/ha		100.00	59.10	52.00	3	70.37	52.00	100.00	59.10	25.91			3	70.37

Table 3.2-25 Efficacy of Difcor 250 EC against ALTEBA in trials applicable for Poland

			6.2-21	6.2-22	6.2-23	6.2-24	6.2-25	6.2-26	6.2-27	6.2-28	6.2-29	Summary					
Pest Code			ALTEBA	ALTEBA	ALTEBA	ALTEBA	ALTEBA	ALTEBA	ALTEBA	ALTEBA	ALTEBA						
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW						
Part Rated			POD	POD	POD	POD	POD	POD	POD	POD	POD						
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV	PESSEV						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK						
Trt-Eval Interval			37 DA-A	36 DA-A	57 DA-A	57 DA-A	52 DA-A	55 DA-A	65 DA-A	68 DA-A	57 DA-A						
Name	Rate	Unit										n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			22.42	20.42	6.50	7.75	6.50	4.00	7.50	4.25	8.75	9	9.79	4.00	22.42	7.50	6.79
Difcor 250 EC	0.3	L/ha	70.26	74.69	69.05	82.50	80.71	86.67				6	77.31	69.05	86.67	77.70	7.08
Difcor 250 EC	0.5	L/ha	74.72	77.55	69.05	93.39	88.93	91.50	86.61	87.71	85.49	9	83.88	69.05	93.39	86.61	8.24
Horizon 250	1	L/ha	63.20	65.71								2	64.46	63.20	65.71	64.46	1.77
Horizon 250	1.25	L/ha			84.52	100.00	100.00	100.00	100.00	100.00	96.85	7	97.34	84.52	100.00	100.00	5.77
Toprex 375	0.5	L/ha							100.00	96.08	97.10	3	97.73	96.08	100.00	97.10	2.03

			6.2-27	6.2-28	6.2-29							Summary					
Part Rated			STEM	STEM	STEM												
Rating Type			PESSEV	PESSEV	PESSEV												
Rating Unit			%UNCK	%UNCK	%UNCK												
Trt-Eval Interval			65 DA-A	68 DA-A	57 DA-A												
Name	Rate	Unit										n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			6.80	4.58	0.84							3	4.07	0.84	6.80	4.58	3.01
Difcor 250 EC	0.5	L/ha	74.72	84.67	89.20							3	82.86	74.72	89.20	84.67	7.41
Horizon 250	1.25	L/ha	89.89	96.91	97.42							3	94.74	89.89	97.42	96.91	4.21
Toprex 375	0.5	L/ha	82.44	91.26	97.15							3	90.28	82.44	97.15	91.26	7.40

			6.2-27	6.2-28	6.2-29							Summary					
Part Rated			LEAF	LEAF	LEAF												
Rating Type			PESSEV	PESSEV	PESSEV												
Rating Unit			%UNCK	%UNCK	%UNCK												
Trt-Eval Interval			65 DA-A	68 DA-A	57 DA-A												
Name	Rate	Unit										n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			3.00	6.00	5.00							3	4.67	3.00	6.00	5.00	1.53
Difcor 250 EC	0.5	L/ha	79.17	60.71	90.00							3	76.63	60.71	90.00	79.17	14.81
Horizon 250	1.25	L/ha	95.83	93.50	98.50							3	95.94	93.50	98.50	95.83	2.50
Toprex 375	0.5	L/ha	91.67	84.64	98.00							3	91.44	84.64	98.00	91.67	6.68

Table 3.2-26 Efficacy of Difcor 250 EC against ALTEBA in Maritime EPPO Zone + trials applicable for Poland

			6.2-30a	6.2-30f	Summary						Summary trials applicable for Poland		Overall summary	
Pest Code			ALTEBA	ALTEBA										
Crop Code			BRSNW	BRSNW										
Part Rated			POD	POD										
Rating Type			PESSEV	PESSEV										
Rating Unit			%UNCK	%UNCK										
Trt-Eval Interval			43 DA-A	75 DA-A										
Name	Rate	Unit			n	Mean	Min	Max	Median	Stdev	n	Mean	n	Mean
UNTREATED (%)			4.75	8.78	2	6.77	4.75	8.78	6.77	2.85	9	9.79	11	9.24
Difcor 250 EC	0.3	L/ha	100.00	100.00	2	100.00	100.00	100.00	100.00	0.00	6	77.31	8	82.99
Difcor 250 EC	0.5	L/ha	100.00	100.00	2	100.00	100.00	100.00	100.00	0.00	9	83.88	11	86.81
Horizon 250	1	L/ha	100.00		1	100.00	100.00	100.00	100.00		2	64.46	3	76.30
Horizon 250	1.25	L/ha		100.00	1	100.00	100.00	100.00	100.00		7	97.34	8	97.67
Plover	0.5	L/ha	100.00		1	100.00	100.00	100.00	100.00				1	100.00

Table 3.2-27 Efficacy of Difcor 250 EC against LEPTMA in trials applicable for Poland

			6.2-31	6.2-32	6.2-33	6.2-34						
Pest Code			LEPTMA	LEPTMA	LEPTMA	LEPTMA						
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW						
Part Rated			STEM	STEM	STEM	STEM						
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	Summary					
Trt-Eval Interval			69 DA-B	58 DA-B	63 DA-B	61 DA-B						
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			0.79	1.74	1.73	1.43	4	1.42	0.79	1.74	1.58	0.45
Difcor 250 EC	0.3	L/ha	66.87	88.06	84.54	86.26	4	81.43	66.87	88.06	85.40	9.81
Difcor 250 EC	0.5	L/ha	77.43	92.39	90.45	90.78	4	87.76	77.43	92.39	90.62	6.94
Horizon 250	1	L/ha	91.91	94.16	91.86	91.48	4	92.35	91.48	94.16	91.89	1.22
Horizon 250	0.75	L/ha	90.40	96.48	95.35	95.24	4	94.37	90.40	96.48	95.30	2.70
Toprex 375	0.5	L/ha	89.47	92.23	89.23	89.80	4	90.18	89.23	92.23	89.64	1.38
			6.2-31	6.2-32	6.2-33	6.2-34						
Part Rated			POD	POD	POD	POD						
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	Summary					
Trt-Eval Interval			69 DA-B	58 DA-B	63 DA-B	61 DA-B						
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			1.13	1.25	1.13	2.08	4	1.40	1.13	2.08	1.19	0.46
Difcor 250 EC	0.3	L/ha	66.67	80.00	81.67	86.72	4	78.77	66.67	86.72	80.84	8.55
Difcor 250 EC	0.5	L/ha	77.50	92.50	88.33	92.74	4	87.77	77.50	92.74	90.42	7.14
Horizon 250	1	L/ha	93.33	98.33	74.17	89.42	4	88.81	74.17	98.33	91.38	10.42
Horizon 250	0.75	L/ha	89.17	94.17	90.83	85.11	4	89.82	85.11	94.17	90.00	3.77
Toprex 375	0.5	L/ha	96.67	89.17	85.42	91.54	4	90.70	85.42	96.67	90.36	4.71
			6.2-31	6.2-32	6.2-33	6.2-34						
Part Rated			LEAF	LEAF	LEAF	LEAF						
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	Summary					
Trt-Eval Interval			69 DA-B	58 DA-B	63 DA-B	61 DA-B						
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			2.00	3.00	3.75	3.50	4	3.06	2.00	3.75	3.25	0.77
Difcor 250 EC	0.3	L/ha	58.75	86.67	89.17	85.63	4	80.06	58.75	89.17	86.15	14.28
Difcor 250 EC	0.5	L/ha	73.75	91.67	92.25	92.29	4	87.49	73.75	92.29	91.96	9.16
Horizon 250	1	L/ha	96.25	95.00	94.67	94.90	4	95.21	94.67	96.25	94.95	0.71
Horizon 250	0.75	L/ha	95.00	94.17	94.42	94.17	4	94.44	94.17	95.00	94.30	0.39
Toprex 375	0.5	L/ha	96.25	89.17	88.83	91.25	4	91.38	88.83	96.25	90.21	3.42
			6.2-31									
Part Rated			ROOT									
Rating Type			PESSEV									
Rating Unit			%UNCK									
Trt-Eval Interval			98 DA-B									
Name	Rate	Unit										
UNTREATED (%)			9.61									
Difcor 250 EC	0.3	L/ha	61.71									
Difcor 250 EC	0.5	L/ha	59.86									
Difcor 250 EC	1	L/ha	49.64									
Horizon 250	1.5	L/ha	48.88									
Score	0.5	L/ha	62.72									

Table 3.2-28 Efficacy of Difcor 250 EC against LEPTMA in Maritime EPPO Zone + trials applicable for Poland

			6.2-35	6.2-36	6.2-37	6.2-39a	6.2-39b	Summary						Summary trials applicable for Poland		Overall summary	
Pest Code			LEPTMA	LEPTMA	LEPTMA	LEPTMA	LEPTMA										
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW	BRSNW										
Part Rated			STEM	STEM	STEM	STEM	STEM										
Rating Type			PESSEV	PESSEV	PESSEV	PESSEV	PESSEV										
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK										
Trt-Eval Interval			98 DA-B	84 DA-B	69 DA-B	88 DA-B	85 DA-B										
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev	n	Mean	n	Mean
UNTREATED (%)			41.60	0.17	6.58	0.59	0.13	5	9.81	0.13	41.60	0.59	17.98	4	1.42	9	6.08
Difcor 250 EC	0.3	L/ha	39.90	71.25	92.61	45.80	41.70	5	58.25	39.90	92.61	45.80	23.00	4	81.43	9	68.55
Difcor 250 EC	0.5	L/ha	42.19	71.25	92.36	25.40	34.10	5	53.06	25.40	92.36	42.19	27.92	4	87.76	9	68.48
Horizon 250	1	L/ha												4	92.35	4	92.35
Horizon 250	0.75	L/ha												4	94.37	4	94.37
Horizon 250	1.5	L/ha	45.31					1	45.31	45.31	45.31	45.31				1	45.31
Toprex 375	0.5	L/ha												4	90.18	4	90.18
Score	0.5	L/ha	42.55					1	42.55	42.55	42.55	42.55				1	42.55
Sunorg PRO	0.6	L/ha		77.50	94.04			2	85.77	77.50	94.04	85.77	11.70			2	85.77
Caramba	1.2	L/ha				10.20		1	10.20	10.20	10.20	10.20				1	10.20
Caramba	1.5	L/ha					57.60	1	57.60	57.60	57.60	57.60				1	57.60

The table below shows the orthogonal comparison between Difcor 250 EC the best performing reference. The resulting amount of control provided by Difcor 250 EC is given in the final column. For the efficacy scale reference is made to Table 3.2-4. It should be noted that results marked in grey are calculated with the 2 Slovakian trials included.

Table 3.2-29 Orthogonal comparison and control provided by Difcor 250 EC against each disease in oilseed rape

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (unit)			% Efficacy						No of trials >. <. = compared to standard(s) min >5% diff.	Efficacy Difcor 250 EC
								Difcor 250 EC 0.5 L/ha			Best performing reference(s)				
					Mean	Min	Max	Mean	Min	Max	Mean	Min	Max		
TRIALS APPLICABLE FOR POLAND (SK trials included marked in grey)															
SCLESC	STEM	PESSEV	52-68	9	28.14	11.69	47.20	84.18	61.65	98.40	89.67	62.50	100.00	5x =, 4x <	C
			52-68	7	23.08	61.69	45.44	90.09	68.46	98.40	96.70	83.97	100.00	3x =, 4x <	C
	POD		57-68	3	4.50	3.50	5.00	74.71	67.71	80.00	95.29	91.25	97.50	3x <	MC
	LEAF		65-68	2	13.00	12.50	13.50	80.21	79.17	81.25	93.96	91.67	96.25	2x <	C
ALTEBA	POD	PESSEV	36-68	9	9.79	4.00	22.42	83.88	69.05	93.39	90.06	63.20	100.00	2x =, 7x <	C
			52-68	7	6.46	4.00	8.75	86.10	69.05	93.39	97.37	84.52	100.00	7x <	C
	STEM		57-68	3	4.07	0.84	6.80	82.86	74.72	89.20	94.74	89.89	97.42	3x <	C
	LEAF		65-68	2	4.67	3.00	6.00	76.63	60.71	90.00	95.94	93.50	98.50	2x =, 1x <	MC
LEPTMA	STEM	PESSEV	58-69	4	1.42	0.79	1.74	87.76	77.43	92.39	94.37	90.40	96.48	3x =, 1x <	C
	POD		58-69	4	1.40	1.13	2.08	87.77	77.50	92.74	93.30	90.83	96.67	3x =, 1x <	C
	LEAF		58-69	4	3.06	2.00	3.75	87.49	73.75	92.29	95.21	94.67	96.25	3x =, 1x <	C
	ROOT		98	1	9.61	-	-	59.86	-	-	62.72	-	-	1x =	SC
MARITIME EPPO ZONE															
SCLESC	STEM	PESSEV	43-63	4	3.39	0.41	7.15	71.58	36.50	100.00	77.78	52.00	100.00	3x =, 1x <	MC
ALTEBA	POD	PESSEV	43-75	2	6.77	4.75	8.78	100.00	100.00	100.00	100.00	100.00	100.00	2x =	C
LEPTMA	STEM	PESSEV	69-98	5	9.81	0.13	41.60	53.06	25.40	92.36	56.93	10.20	77.50	1x >, 2x =, 2x <	SC
ALL TRIALS COMBINED (SK trials included marked in grey)															
SCLESC	STEM	PESSEV	43-68	13	20.52	0.41	11.69	80.30	36.50	61.65	86.01	52.00	100.00	8x =, 5x <	C
			43-68	11	15.92	0.41	45.44	83.36	36.50	45.44	89.82	52.00	45.44	6x =, 5x <	C
	POD		57-68	3	4.50	3.50	5.00	74.71	67.71	80.00	95.29	91.25	97.50	3x <	MC
	LEAF		65-68	2	13.00	12.50	13.50	80.21	79.17	81.25	93.96	91.67	96.25	2x <	C
ALTEBA	POD	PESSEV	36-75	11	9.24	4.00	22.42	86.81	69.05	100.00	91.87	63.20	100.00	4x =, 7x <	C
			43-75	9	6.53	4.00	8.78	89.19	69.05	100.00	97.95	84.52	100.00	2x =, 7x <	C
	STEM		57-68	3	4.07	0.84	6.80	82.86	74.72	89.20	94.74	89.89	97.42	3x <	C
	LEAF		65-68	2	4.67	3.00	6.00	76.63	60.71	90.00	95.94	93.50	98.50	2x =, 1x <	MC
LEPTMA	STEM	PESSEV	58-98	9	6.08	0.13	41.60	68.48	25.40	92.39	73.57	10.20	96.48	1x >, 5x =, 4 <	MC
	POD		58-69	4	1.40	1.13	2.08	87.77	77.50	92.74	93.30	90.83	96.67	3x =, 1x <	C
	LEAF		58-69	4	3.06	2.00	3.75	87.49	73.75	92.29	95.21	94.67	96.25	3x =, 1x <	C
	ROOT		98	1	9.61	-	-	59.86	-	-	62.72	-	-	1x >; 5x =, 3x <	SC

Conclusion
In total 18 efficacy trials were performed between 2009 and 2011 in France, Germany, Poland, the UK and Slovakia with Difcor 250 EC against SCLESC and ALTEBA (10 trials) and LEPTMA (8 trials).

The data presented above demonstrates that good control is obtained against SCLESC, ALTEBA and LEPTMA when applied at a dose rate of 0.5 L/ha. In the majority of representative efficacy ratings (with 4 or more data points) the efficacy exceeds 80%. The only exception is the efficacy against SCLESC on stems in the Maritime EPPO Zone, but when the Polish (and Slovakian) trials are included, for a total of 11 trials (13 including SK trials) an efficacy of 80% is reached.

Additionally, the efficacy of Difcor 250 EC is very similar to that of the best performing reference product of each individual trial.

Poland is a neighboring country of Germany, therefore the Polish trials are also valid for Germany. The results of the trials performed in the Maritime EPPO Zone and the Polish trials combined can be found under “All trials combined” in the table, with the exception of the results marked in grey (these include the Slovakian trials).

Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

3.2.3.3 Bridging trials for Difenoconazole 500 SC on sugar beet

In total, 6 bridging trials were performed on sugar beet of which 2 were performed in Poland, which is part of the North-East EPPO Zone and 4 were performed in the Maritime EPPO Zone (the Czech Republic, Germany and the UK). However, it should be noted that trials performed in the Czech Republic and Germany are also valid for Poland. According to EPPO Guideline 1/307(1) 3 to 5 efficacy trials are required per major target but this requirement is lowered to 2 to 4 crops when a range of crops and/or diseases is requested, as is the case for this dossier. The trial methodology, crops species, trial site information; application details, location and soil type are presented in Table 3.2-30 and Table 3.2-31.

Table 3.2-30 Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/152 (4), 1/135 (4), 1/181 (4)
	Specific guidelines	EPPO 1/1(4)
Experimental design	Plot design	Field trials
	Number of replications	4
Crop	Trials per crop	6
	Varieties per crop	6
Application	Crop stage (BBCH) at application	1st application: 32-39 2nd application: 35-49
	Applications	2
	Spray volumes	200-300 L/ha
Assessment	Assessment types	1) Phytotoxicity 2) Efficacy against fungal diseases 3) Yield (quality)
	Assessment dates	1) From 0 DA-A 2) 20-76 DA-A / 15-53 DA-B. 3) Harvest
	Field / Greenhouse...	Field
	GEP	All trials were performed according to GEP

Table 3.2-31 Summary form of information concerning trial sites and application details

Type of trials	effectiveness
Identity of the product under test	Difenoconazole 500 SC (SC formulation of 500 g/L difenoconazole)
Crop:	Sugar beet
Harmful organism	Fungal diseases (CERCBE, ERYSBE, RAMUBE, UROMBE)
Responsible body for reporting trial	See second column
Date of submission	April 2020

Trial reference	**Testing unit**	**Trial location** **Soil type**	**Test method** **Plot size**	**Application details**				**Remarks (variety)**
				Appl. Date(s)	**Method, amount**	**Applic. technique**	**Growth stage crop at appl.**	
"FE-19-D-DifcorSC-CZ01 KCP 6.2-47"	Zkušební stanice Nechanice s.r.o.	Nechanice (CZ) Loamy sand	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/1(4) 24.3 m²	27/07/2019 19/08/2019	Overall spray, 300 L/ha	Spray boom	BBCH 39	Gellert
FE-19-D-DifcorSC-DE02 KCP 6.2-48	Field Research Support	Varenholz (DE) Silt loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/1(4) 18 m²	16/08/2019 06/09/2019	Overall spray, 200 L/ha	Spray boom	BBCH 39	Marley
FE-19-D-DifcorSC-UK06 KCP 6.2-49	Oxford Agricultural Trials Limited	Isleham (UK) Clay loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/1(4) 18 m²	30/08/2019 19/09/2019	Overall spray, 200 L/ha	Spray boom	BBCH 39	BS1440
FE-19-D-DifcorSC-UK07 KCP 6.2-50	Oxford Agricultural Trials Limited	Lindholme (UK) Sandy clay loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/1(4) 18 m²	18/11/2019 11/12/2019	Overall spray, 200 L/ha	Spray boom	BBCH 39, 49	Power Beet / Energy Beet

FE-19-D-DifcorSC-PL04 KCP 6.2-51	Field Research Support	Konojad (PL) Sandy loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/1(4) 18 m²	08/08/2019 04/09/2019	Overall spray, 300 L/ha	Spray boom	BBCH 39	Diplomat
FE-19-D-DifcorSC-PL05 KCP 6.2-52	Poznań University of Life Sciences	Przybroda (PL) Sandy loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/1(4) 25 m²	24/07/2019 14/08/2019	Overall spray, 200 L/ha	Spray boom	BBCH 32, 35	Panorama

Details of the formulations tested are provided in Table 3.2-32 details of application rates are provided in Table 3.2-33.

Table 3.2-32 Formulation included in the efficacy trials

Product	Active substance	Active substance content	Formulation type
Difcor 250 EC = Difenoconazole 250 EC	Difenoconazole	250 g/L	EC
Difenoconazole 500 SC	Difenoconazole	500 g/L	SC
Score	Difenoconazole	250 g/L	EC
ILA 250 EC	Difenoconazole	250 g/L	EC
Difure Pro	Difenoconazole Propiconazole	150 g/L 150 g/L	EC
Dafne 250 EC	Difenoconazole	250 g/L	EC

Table 3.2-33 Application rates

Trial reference number	Product	Application rate	
		kg as/ha	Product kg-L/ha
KCP 6.2-47	Difenoconazole 500 SC Difenoconazole 500 SC Difcor250 EC ILA 250 EC	75 125 125 100	0.15 0.25 0.5 0.4
KCP 6.2-48	Difenoconazole 500 SC Difenoconazole 500 SC Difcor250 EC Score	75 125 125 100	0.15 0.25 0.5 0.4
KCP 6.2-49, 50	Difenoconazole 500 SC Difenoconazole 500 SC Difcor250 EC Difure Pro	75 125 125 180	0.15 0.25 0.5 0.6
KCP 6.2-51, 52	Difenoconazole 500 SC Difenoconazole 500 SC Difcor 250 EC Difure Pro	75 125 100 180	0.15 02 0.4 0.6

Trial results

The following tables summarize the data gathered in the efficacy trials per EPPO Zone and per disease. Results applicable for the Maritime EPPO Zone and all results applicable for Poland are shown in separate tables. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.2-34 Efficacy of Difenoconazole 500 SC against CERCBE in Maritime EPPO Zone

			6.2-47		6.2-48		6.2-49		6.2-50							
Rating Type			AUDPC		AUDPC		AUDPC		AUDPC							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			76		53		55		57		Summary					
Days After First/Last Applic.			53		32		35		34		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (#)			455.12	a	186.88	a	203.13	a	1398.38	a	560.88	4	186.88	1398.38	329.13	571.68
Difenoconazole 500 SC	0.15	L/ha	71.52	c	64.83	a	24.60	a	34.50	ab	48.86	4	24.60	71.52	49.67	22.83
Difenoconazole 500 SC	0.25	L/ha	95.16	ab	49.80	a	28.15	a	32.57	ab	51.42	4	28.15	95.16	41.19	30.62
Difcor 250 EC	0.5	L/ha	95.31	ab	56.48	a	47.46	a	28.57	ab	56.96	4	28.57	95.31	51.97	28.09
ILA 250 EC	0.4	L/ha	91.51	b							91.51	1	91.51	91.51	91.51	
Score	0.4	L/ha			65.96	a					65.96	1	65.96	65.96	65.96	
Difure Pro	0.6	L/ha					13.89	a	55.97	a	34.93	2	13.89	55.97	34.93	29.76
			6.2-47		6.2-48		6.2-50									
Rating Type			PESSEV		PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK		%UNCK									
Days After First			23		21		21				Summary					
Days After First/Last Applic.			23		21		21				Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (%)			1.38	a	2.50	a	13.75	a			13.75	1	13.75	13.75	13.75	
Difenoconazole 500 SC	0.15	L/ha	26.11	c	56.25	a	39.17	a			39.17	1	39.17	39.17	39.17	
Difenoconazole 500 SC	0.25	L/ha	94.14	a	56.25	a	52.08	a			52.08	1	52.08	52.08	52.08	
Difcor 250 EC	0.5	L/ha	91.97	a	56.25	a	40.00	a			40.00	1	40.00	40.00	40.00	
ILA 250 EC	0.4	L/ha	86.41	a												
Score	0.4	L/ha			56.25	a										
Difure Pro	0.6	L/ha					52.92	a			52.92	1	52.92	52.92	52.92	
			6.2-47		6.2-48		6.2-49		6.2-50							
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			38		40		42		42		Summary					
Days After First/Last Applic.			15		19		22		19		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (%)			5.59	a	4.75	a	13.75	a	33.75	a	14.46	4	4.75	33.75	9.67	13.49
Difenoconazole 500 SC	0.15	L/ha	74.74	b	78.75	a	20.83	a	29.91	a	51.06	4	20.83	78.75	52.33	29.94
Difenoconazole 500 SC	0.25	L/ha	98.13	a	45.00	a	58.33	a	35.71	a	59.29	4	35.71	98.13	51.67	27.51
Difcor 250 EC	0.5	L/ha	97.23	a	58.75	a	50.00	a	31.96	a	59.49	4	31.96	97.23	54.38	27.52
ILA 250 EC	0.4	L/ha	96.32	a							96.32	1	96.32	96.32	96.32	
Score	0.4	L/ha			72.50	a					72.50	1	72.50	72.50	72.50	
Difure Pro	0.6	L/ha					25.00	a	60.71	a	42.86	2	25.00	60.71	42.86	25.25
			6.2-47		6.2-48		6.2-49		6.2-50							
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			59		53		55		57		Summary					
Days After First/Last Applic.			36		32		35		34		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (%)			7.53	a	7.75	a	17.50	a	57.50	a	22.57	4	7.53	57.50	12.63	23.75
Difenoconazole 500 SC	0.15	L/ha	69.11	b	63.04	a	35.83	a	34.11	ab	50.52	4	34.11	69.11	49.44	18.14
Difenoconazole 500 SC	0.25	L/ha	95.20	a	57.98	a	13.33	a	23.21	ab	47.43	4	13.33	95.20	40.60	37.16
Difcor 250 EC	0.5	L/ha	95.19	a	61.22	a	50.83	a	32.50	ab	59.94	4	32.50	95.19	56.03	26.33
ILA 250 EC	0.4	L/ha	93.17	a							93.17	1	93.17	93.17	93.17	
Score	0.4	L/ha			75.77	a					75.77	1	75.77	75.77	75.77	
Difure Pro	0.6	L/ha					13.33	a	47.14	a	30.24	2	13.33	47.14	30.24	23.91

			6.2-47	
Rating Type			PESSEV	
Rating Unit			%UNCK	
Days After First			76	
Days After First/Last Applic.			53	
Name	Rate	Unit		
UNTREATED (%)			21.80	a
Difenoconazole 500 SC	0.15	L/ha	76.78	b
Difenoconazole 500 SC	0.25	L/ha	93.34	a
Difcor 250 EC	0.5	L/ha	94.81	a
ILA 250 EC	0.4	L/ha	88.01	a

Table 3.2-35 Efficacy of Difenoconazole 500 SC against ERYSBE in Maritime EPPO Zone

			6.2-47		6.2-47		6.2-47		6.2-47	
Rating Type			AUDPC		PESSEV		PESSEV		PESSEV	
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK	
Days After First			76		38		59		76	
Days After First/Last Applic.			53		15		36		53	
Name	Rate	Unit								
UNTREATED (#)			94.31	a	0.83	a	2.29	a	4.96	a
Difenoconazole 500 SC	0.15	L/ha	50.20	b	61.58	b	36.09	b	60.80	b
Difenoconazole 500 SC	0.25	L/ha	92.62	a	100.00	a	100.00	a	83.28	a
Difcor 250 EC	0.5	L/ha	92.37	a	100.00	a	100.00	a	83.26	a
ILA 250 EC	0.4	L/ha	87.18	a	100.00	a	100.00	a	70.59	ab

Table 3.2-36 Efficacy of Difenoconazole 500 SC against UROMBE in Maritime EPPO Zone

			6.2-48		6.2-49		6.2-50		Summary					
Rating Type			AUDPC		AUDPC		AUDPC							
Rating Unit			%UNCK		%UNCK		%UNCK							
Days After First			53		55		57							
Days After First/Last Applic.			32		35		34		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (#)			30.88	a	361.38	a	91.88	a	161.38	3	30.88	361.38	91.88	175.87
Difenoconazole 500 SC	0.15	L/ha	100.00	a	23.09	bc	19.37	a	47.49	3	19.37	100.00	23.09	45.52
Difenoconazole 500 SC	0.25	L/ha	100.00	a	23.99	bc	18.86	a	47.62	3	18.86	100.00	23.99	45.44
Difcor 250 EC	0.5	L/ha	100.00	a	58.91	a	11.59	a	56.83	3	11.59	100.00	58.91	44.24
Score	0.4	L/ha	100.00	a					100.00	1	100.00	100.00	100.00	
Difure Pro	0.6	L/ha			43.85	ab	19.42	a	31.64	2	19.42	43.85	31.64	17.27
			6.2-49		6.2-50									
Rating Type			PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK									
Days After First			20		21									
Days After First/Last Applic.			20		21									
Name	Rate	Unit												
UNTREATED (%)			8.75	a	2.75	a								
Difenoconazole 500 SC	0.15	L/ha	32.5	b	35.42	ab								
Difenoconazole 500 SC	0.25	L/ha	37.5	b	27.08	ab								
Difcor 250 EC	0.5	L/ha	60	ab	12.5	ab								
Difure Pro	0.6	L/ha	45	ab	43.75	ab								
			6.2-48		6.2-49									
Rating Type			PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK									
Days After First			40		42									
Days After First/Last Applic.			19		22									
Name	Rate	Unit												
UNTREATED (%)			1.5	a	11.25	a								
Difenoconazole 500 SC	0.15	L/ha	100	a	20.83	bc								
Difenoconazole 500 SC	0.25	L/ha	100	a	16.67	bc								
Difcor 250 EC	0.5	L/ha	100	a	64.17	ab								
Score	0.4	L/ha	100	a										
Difure Pro	0.6	L/ha			49.17	ab								
			6.2-48		6.2-49									
Rating Type			PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK									
Days After First			53		55									
Days After First/Last Applic.			32		35									
Name	Rate	Unit												
UNTREATED (%)			3.25	a	10.5	a								
Difenoconazole 500 SC	0.15	L/ha	100	a	10.42	b								
Difenoconazole 500 SC	0.25	L/ha	100	a	14.58	b								
Difcor 250 EC	0.5	L/ha	100	a	39.58	ab								
Score	0.4	L/ha	100	a										
Difure Pro	0.6	L/ha			16.67	b								

Table 3.2-37 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials in the Maritime EPPO Zone

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
CERCBE	PLANT	AUDC	53-76	4	560.88	186.88	1398.38	0.25 L/ha	51.42	28.15	95.16	0.5 L/ha	56.96	28.57	95.31	2x =, 2x <
		PESSEV	21	1	13.75	-	-	0.25 L/ha	52.08	-	-	0.5 L/ha	40.00	-	-	1x >
		PESSEV	38-42	4	14.46	4.75	33.75	0.25 L/ha	59.29	35.71	98.13	0.5 L/ha	59.49	31.96	97.23	1x >, 2x =, 1x <
		PESSEV	53-59	4	22.57	7.53	57.50	0.25 L/ha	47.43	13.33	95.20	0.5 L/ha	59.94	32.50	95.19	2x =, 2x <
		PESSEV	76	1	21.80	-	-	0.25 L/ha	93.34	-	-	0.5 L/ha	94.81	-	-	1x =
ERYSBE	PLANT	AUDPC	76	1	94.31	-	-	0.25 L/ha	92.62	-	-	0.5 L/ha	92.37	-	-	1x =
		PESSEV	76	1	4.96	-	-	0.25 L/ha	83.28	-	-	0.5 L/ha	83.26	-	-	1x =
UROMBE	PLANT	AUDPC	53-57	3	161.38	30.88	361.38	0.25 L/ha	47.62	18.86	100.00	0.5 L/ha	56.83	-	-	1x <
		PESSEV	20	1	8.75	-	-	0.25 L/ha	37.5	-	-	0.5 L/ha	60	-	-	1x <
		PESSEV	42	1	11.25	-	-	0.25 L/ha	16.67	-	-	0.5 L/ha	64.17	-	-	1x <
		PESSEV	55	1	10.5	-	-	0.25 L/ha	14.58	-	-	0.5 L/ha	39.58	-	-	1x <

Conclusion

The 4 bridging trials performed in the Maritime EPPO Zone of which the data is shown in the tables above demonstrate that Difenoconazole 500 SC is highly comparable to Difcor 250 EC and are therefore in support of its registration. For Germany the efficacy of the lower rate of 0.2 L/ha (allowing a dose range of 0.2-0.25 L/ha) is demonstrated in the Polish bridging trials (KCP 6.2-51 and 52), which are summarized in Table 3.2-42 (dose rates marked in grey).
Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

Trials applicable for Poland

Table 3.2-38 Efficacy of Difenoconazole 500 SC against CERCBE applicable for Poland

			6.2-47		6.2-48		6.2-51		6.2-52							
Rating Type			AUDPC		AUDPC		AUDPC		AUDPC							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			76		53		62		54		Summary					
Days After First/Last Applic.			53		32		35		33		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (#)			455.12	a	186.88	a	597.88	a	1013.13	a	563.25	4	186.88	1013.13	526.50	344.93
Difenoconazole 500 SC	0.15	L/ha	71.52	c	64.83	a	59.78	ab	46.59	b	60.68	4	46.59	71.52	62.31	10.55
Difenoconazole 500 SC	0.2	L/ha					61.14	ab	78.95	a	70.05	2	61.14	78.95	70.05	12.59
Difenoconazole 500 SC	0.25	L/ha	95.16	ab	49.80	a					72.48	2	49.80	95.16	72.48	32.07
Difcor 250 EC	0.4	L/ha					65.26	ab	45.75	b	55.51	2	45.75	65.26	55.51	13.80
Difcor 250 EC	0.5	L/ha	95.31	ab	56.48	a					75.90	2	56.48	95.31	75.90	27.46
ILA 250 EC	0.4	L/ha	91.51	b							91.51	1	91.51	91.51	91.51	
Score	0.4	L/ha			65.96	a					65.96	1	65.96	65.96	65.96	
Dafne 250 EC	0.4	L/ha					48.67	b	73.68	ab	61.18	2	48.67	73.68	61.18	17.68
			6.2-47		6.2-48		6.2-51		6.2-52							
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			23		21		27		21		Summary					
Days After First/Last Applic.			23		21		27		21		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (%)			1.38	a	2.50	a	8.25	a	15.00	a	11.63	2	8.25	15.00	11.63	4.77
Difenoconazole 500 SC	0.15	L/ha	26.11	c	56.25	a	56.88	a	56.67	a	56.78	2	56.67	56.88	56.78	0.15
Difenoconazole 500 SC	0.2	L/ha					56.88	a	82.50	a	69.69	2	56.88	82.50	69.69	18.12
Difenoconazole 500 SC	0.25	L/ha	94.14	a	56.25	a										
Difcor 250 EC	0.4	L/ha					59.38	a	39.17	ab	49.28	2	39.17	59.38	49.28	14.29
Difcor 250 EC	0.5	L/ha	91.97	a	56.25	a										
ILA 250 EC	0.4	L/ha	86.41	a												
Score	0.4	L/ha			56.25	a										
Dafne 250 EC	0.4	L/ha					29.38	ab	82.50	a	55.94	2	29.38	82.50	55.94	37.56
			6.2-47		6.2-48		6.2-51		6.2-52							
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			38		40		42		37		Summary					
Days After First/Last Applic.			15		19		15		16		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (%)			5.59	a	4.75	a	10.50	a	25.00	a	11.46	4	4.75	25.00	8.05	9.38
Difenoconazole 500 SC	0.15	L/ha	74.74	b	78.75	a	53.81	a	43.75	a	62.76	4	43.75	78.75	64.28	16.74
Difenoconazole 500 SC	0.2	L/ha					52.14	a	81.67	a	66.91	2	52.14	81.67	66.91	20.88
Difenoconazole 500 SC	0.25	L/ha	98.13	a	45.00	a					71.57	2	45.00	98.13	71.57	37.57
Difcor 250 EC	0.4	L/ha					62.62	a	44.58	a	53.60	2	44.58	62.62	53.60	12.76
Difcor 250 EC	0.5	L/ha	97.23	a	58.75	a					77.99	2	58.75	97.23	77.99	27.21
ILA 250 EC	0.4	L/ha	96.32	a							96.32	1	96.32	96.32	96.32	
Score	0.4	L/ha			72.50	a					72.50	1	72.50	72.50	72.50	
Dafne 250 EC	0.4	L/ha					36.67	a	70.42	a	53.55	2	36.67	70.42	53.55	23.86
			6.2-47		6.2-48		6.2-51		6.2-52							
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			59		53		62		54		Summary					
Days After First/Last Applic.			36		32		35		33		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (%)			7.53	a	7.75	a	23.75	a	36.25	a	18.82	4	7.53	36.25	15.75	13.88
Difenoconazole 500 SC	0.15	L/ha	69.11	b	63.04	a	62.86	a	48.21	c	60.81	4	48.21	69.11	62.95	8.88
Difenoconazole 500 SC	0.2	L/ha					66.43	a	76.19	a	71.31	2	66.43	76.19	71.31	6.90
Difenoconazole 500 SC	0.25	L/ha	95.20	a	57.98	a					76.59	2	57.98	95.20	76.59	26.32
Difcor 250 EC	0.4	L/ha					71.25	a	55.95	bc	63.60	2	55.95	71.25	63.60	10.82
Difcor 250 EC	0.5	L/ha	95.19	a	61.22	a					78.21	2	61.22	95.19	78.21	24.02
ILA 250 EC	0.4	L/ha	93.17	a							93.17	1	93.17	93.17	93.17	
Score	0.4	L/ha			75.77	a					75.77	1	75.77	75.77	75.77	
Dafne 250 EC	0.4	L/ha					61.25	a	79.32	a	70.29	2	61.25	79.32	70.29	12.78

			6.2-47	
Rating Type			PESSEV	
Rating Unit			%UNCK	
Days After First			76	
Days After First/Last Applic.			53	
Name	Rate	Unit		
UNTREATED (%)			21.80	a
Difenoconazole 500 SC	0.15	L/ha	76.78	b
Difenoconazole 500 SC	0.25	L/ha	93.34	a
Difcor 250 EC	0.5	L/ha	94.81	a
ILA 250 EC	0.4	L/ha	88.01	a

Table 3.2-39 Efficacy of Difenoconazole 500 SC against ERYSBE applicable for Poland

			6.2-47		6.2-52		Summary					
Rating Type			AUDPC		AUDPC							
Rating Unit			%UNCK		%UNCK							
Days After First			76		54							
Days After First/Last Applic.			53		33		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (#)			94.31	a	333.63	a	213.97	2	94.31	333.63	213.97	169.225
Difenoconazole 500 SC	0.15	L/ha	50.20	b	72.54	a	61.37	2	50.2	72.54	61.37	15.7968
Difenoconazole 500 SC	0.2	L/ha			87.06	a	87.06	1	87.06	87.06	87.06	
Difenoconazole 500 SC	0.25	L/ha	92.62	a			92.62	1	92.62	92.62	92.62	
Difcor 250 EC	0.4	L/ha			82.98	a	82.98	1	82.98	82.98	82.98	
Difcor 250 EC	0.5	L/ha	92.37	a			92.37	1	92.37	92.37	92.37	
ILA 250 EC	0.4	L/ha	87.18	a			87.18	1	87.18	87.18	87.18	
Dafne 250 EC	0.4	L/ha			54.17	a	54.17	1	54.17	54.17	54.17	

			6.2-52	
Rating Type			PESSEV	
Rating Unit			%UNCK	
Days After First			21	
Days After First/Last Applic.			21	
Name	Rate	Unit		
UNTREATED (%)			6.25	a
Difenoconazole 500 SC	0.15	L/ha	67.50	a
Difenoconazole 500 SC	0.2	L/ha	80.00	a
Difcor 250 EC	0.4	L/ha	75.00	a
Dafne 250 EC	0.4	L/ha	62.50	a

			6.2-47		6.2-52	
Rating Type			PESSEV		PESSEV	
Rating Unit			%UNCK		%UNCK	
Days After First			38		37	
Days After First/Last Applic.			15		16	
Name	Rate	Unit				
UNTREATED (%)			0.83	a	10.75	a
Difenoconazole 500 SC	0.15	L/ha	61.58	b	74.17	a
Difenoconazole 500 SC	0.2	L/ha			87.50	a
Difenoconazole 500 SC	0.25	L/ha	100.00	a		
Difcor 250 EC	0.4	L/ha			82.50	a
Difcor 250 EC	0.5	L/ha	100.00	a		
ILA 250 EC	0.4	L/ha	100.00	a		
Dafne 250 EC	0.4	L/ha			51.88	a

			6.2-47		6.2-52	
Rating Type			PESSEV		PESSEV	
Rating Unit			%UNCK		%UNCK	
Days After First			59		54	
Days After First/Last Applic.			36		33	
Name	Rate	Unit				
UNTREATED (%)			2.29	a	12.50	a
Difenoconazole 500 SC	0.15	L/ha	36.09	b	70.83	a
Difenoconazole 500 SC	0.2	L/ha			88.33	a
Difenoconazole 500 SC	0.25	L/ha	100.00	a		
Difcor 250 EC	0.4	L/ha			87.50	a
Difcor 250 EC	0.5	L/ha	100.00	a		
ILA 250 EC	0.4	L/ha	100.00	a		
Dafne 250 EC	0.4	L/ha			50.00	a

			6.2-47	
Rating Type			PESSEV	
Rating Unit			%UNCK	
Days After First			76	
Days After First/Last Applic.			53	
Name	Rate	Unit		
UNTREATED (%)			4.96	a
Difenoconazole 500 SC	0.15	L/ha	60.80	b
Difenoconazole 500 SC	0.25	L/ha	83.28	a
Difcor 250 EC	0.5	L/ha	83.26	a
ILA 250 EC	0.4	L/ha	70.59	ab

Table 3.2-40 Efficacy of Difenoconazole 500 SC against RAMUBE applicable for Poland

			6.2-51	
Rating Type			AUDPC	
Rating Unit			%UNCK	
Days After First			62	
Days After First/Last Applic.			35	
Name	Rate	Unit		
UNTREATED (#)			151.25	a
Difenoconazole 500 SC	0.15	L/ha	64.44	a
Difenoconazole 500 SC	0.2	L/ha	69.65	a
Difcor 250 EC	0.4	L/ha	74.5	a
Dafne 250 EC	0.4	L/ha	60.88	a

			6.2-51		6.2-51		6.2-51		Summary					
Rating Type			PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK							
Days After First			27		42		62							
Days After First/Last Applic.			27		15		35		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (%)			3.5	a	4	a	5.5	a	4.75	2	4.00	5.50	4.75	1.06
Difenoconazole 500 SC	0.15	L/ha	61.67	a	65	a	59.29	a	62.15	2	59.29	65.00	62.15	4.04
Difenoconazole 500 SC	0.2	L/ha	70	a	73.33	a	62.86	a	68.10	2	62.86	73.33	68.10	7.40
Difcor 250 EC	0.4	L/ha	70	a	73.33	a	76.43	a	74.88	2	73.33	76.43	74.88	2.19
Dafne 250 EC	0.4	L/ha	53.33	a	60	a	56.43	a	58.22	2	56.43	60.00	58.22	2.52

Table 3.2-41 Efficacy of Difenoconazole 500 SC against UROMBE applicable for Poland

			6.2-48		6.2-48		6.2-48	
Rating Type			AUDPC		PESSEV		PESSEV	
Rating Unit			%UNCK		%UNCK		%UNCK	
Days After First			53		40		53	
Days After First/Last Applic.			32		19		32	
Name	Rate	Unit						
UNTREATED (#)			30.88	a	1.5	a	3.25	a
Difenoconazole 500 SC	0.15	L/ha	100	a	100	a	100	a
Difenoconazole 500 SC	0.25	L/ha	100	a	100	a	100	a
Difcor 250 EC	0.5	L/ha	100	a	100	a	100	a
Score	0.4	L/ha	100	a	100	a	100	a

Table 3.2-42 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials applicable for Poland

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
CERCBE	PLANT	AUDPC	53-76	2	321.00	186.88	455.12	0.25 L/ha	72.48	49.80	95.16	0.5 L/ha	75.90	56.48	95.31	1x =, 1x <
			54-62	2	805.51	597.88	1013.13	0.2 L/ha	70.05	61.14	78.95	0.4 L/ha	55.51	45.75	65.26	1x >, 1x =
		PESSEV	21-27	2	11.63	8.25	15.00	0.2 L/ha	69.69	56.88	82.50	0.4 L/ha	49.28	39.17	59.38	1x >, 1x =
			38-40	2	5.17	4.75	5.59	0.25 L/ha	71.57	45.00	98.13	0.5 L/ha	77.99	58.75	97.23	1x =, 1x <
			37-42	2	17.75	10.50	25.00	0.2 L/ha	66.91	52.14	81.67	0.4 L/ha	53.60	44.58	62.62	1x >, 1x <
			53-57	2	7.64	7.53	7.75	0.25 L/ha	95.20	95.20	95.20	0.5 L/ha	95.19	95.19	95.19	2x =
			54-62	2	30.00	23.75	36.25	0.2 L/ha	71.31	66.43	76.19	0.4 L/ha	63.60	55.95	71.25	1x >, 1x =
			76	1	21.80	-	-	0.25 L/ha	93.34	-	-	0.5 L/ha	94.81	-	-	1x =
ERYSBE	PLANT	AUDPC	76	1	94.31	-	-	0.25 L/ha	92.62	-	-	0.5 L/ha	92.37	-	-	1x =
			54	1	333.63	-	-	0.2 L/ha	87.06	-	-	0.4 L/ha	82.98	-	-	1x =
		PESSEV	21	1	6.25	-	-	0.2 L/ha	80.00	-	-	0.4 L/ha	75.00	-	-	1x =
			37	1	10.75	-	-	0.2 L/ha	87.50	-	-	0.4 L/ha	82.50	-	-	1x =
			54-59	1	12.50	-	-	0.2 L/ha	88.33	-	-	0.4 L/ha	87.50	-	-	1x =
			76	1	4.96	-	-	0.25 L/ha	83.28	-	-	0.5 L/ha	83.26	-	-	1x =
RAMUBE	PLANT	AUDPC	62	1	151.25	-	-	0.2 L/ha	69.65	-	-	0.4 L/ha	74.5	-	-	1x =
			42-62	2	4.75	4	5.5	0.2 L/ha	68.095	62.86	73.33	0.4 L/ha	74.88	73.33	76.43	1x =, 1x <
UROMBE	PLANT	AUDPC	53	1	30.88	-	-	0.25 L/ha	100	-	-	0.5 L/ha	100	-	-	1x =

Conclusion

The 4 bridging trials performed in Poland (2), Germany (1) and the Czech Republic (1) of which the data is shown in the tables above demonstrate that Difenoconazole 500 SC is highly comparable to Difcor 250 EC and are therefore in support of its registration.

Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

3.2.3.4 Bridging trials for Difenoconazole 500 SC on oilseed rape

In total, 6 bridging trials were performed on oilseed of which 1 was performed in Poland, which is part of the North-East EPPO Zone and 5 were performed in the Maritime EPPO Zone (the Czech Republic, France, Germany and the UK). However, it should be noted that trials performed in the Czech Republic and Germany are also valid for Poland. According to EPPO Guideline 1/307(1) 3 to 5 efficacy trials are required per major target but this requirement is lowered to 2 to 4 crops when a range of crops and/or diseases is requested, as is the case for this dossier. The trial methodology, crops species, trial site information; application details, location and soil type are presented in Table 3.2-43 and Table 3.2-44.

Table 3.2-43 Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/152 (4), 1/135 (4), 1/181 (4)
	Specific guidelines	EPPO 1/78(3)
Experimental design	Plot design	Field trials
	Number of replications	4
Crop	Trials per crop	6
	Varieties per crop	5
Application	Crop stage (BBCH) at application	61-69
	Applications	1 (post-emergence)
	Spray volumes	200-225 L/ha
Assessment	Assessment types	1) Phytotoxicity 2) Efficacy against fungal diseases 3) Yield (quality)
	Assessment dates	1) From 0 DA-A 2) 21-76 DA-A 3) Harvest
	Field / Greenhouse...	Field
	GEP	All trials were performed according to GEP

Table 3.2-44 Summary form of information concerning trial sites and application details

Type of trials	effectiveness
Identity of the product under test	Difenoconazole 500 SC (SC formulation of 500 g/L difenoconazole)
Crop:	Oilseed rape
Harmful organism	Fungal diseases (ALTEBA, ERYSCR, PYRPBR, SCLESC)
Responsible body for reporting trial	See second column
Date of submission	April 2020

Trial reference	**Testing unit**	**Trial location** **Soil type**	**Test method** **Plot size**	**Application details**				**Remarks (variety)**
				Appl. Date(s)	**Method, amount**	**Applic. technique**	**Growth stage crop at appl.**	
FE-19-B-DifcorSC-CZ01 KCP 6.2-40	Zemedelsky vyzkumny ustav Kromeriz, s.r.o.,	Kromeriz (CZ) Loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/78(3) 25 m²	02/05/2019	Overall spray, 225 L/ha	Spray boom	BBCH 65	DK Exception
FE-19-B-DifcorSC-DE02 KCP 6.2-41	Agrartest GmbH	Rosenow (DE) Sandy loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/78(3) 25 m²	20/05/2019	Overall spray, 300 L/ha	Spray boom	BBCH 69	Bender
FE-19-B-DifcorSC-FR03 KCP 6.2-42	Promo-Vert SAS	Saint Leonard de Beace (FR) Calcareous clay	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/78(3) 42 m²	17/04/2019	Overall spray, 200 L/ha	Spray boom	BBCH 65	DK Exception
FE-19-B-DifcorSC-UK07 KCP 6.2-43	Oxford Agricultural Trials Limited	Stonehaven (UK) Clay sandy loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/78(3) 36 m²	22/04/2019	Overall spray, 200 L/ha	Spray boom	BBCH 61	Nikita
FE-19-B-DifcorSC-	Oxford Agricultural	Broxholme (UK) Clay loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/78(3)	13/05/2019	Overall spray, 200 L/ha	Spray boom	BBCH 61	Campus

UK08 KCP 6.2-44	Trials Limited		36 m²					
FE-19-B-DifcorSC-PL06 KCP 6.2-45	SynTech Research Poland Sp. z o.o.	Nowielin (PL) Clay loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/78(3) 42 m²	14/05/2019	Overall spray, 200 L/ha	Spray boom	BBCH 65	Konkret

Details of the formulations tested are provided in Table 3.2-45 details of application rates are provided in Table 3.2-46.

Table 3.2-45 Formulation included in the efficacy trials

Product	Active substance	Active substance content	Formulation type
Difcor 250 EC = Difenoconazole 250 EC	Difenoconazole	250 g/L	EC
Difenoconazole 500 SC	Difenoconazole	500 g/L	SC
Sirena	Metconazole	60 g/L	EC

Table 3.2-46 Application rates

Trial reference number	Product	Application rate	
		kg as/ha	Product kg-L/ha
KCP 6.2-40, 42-45	Difenoconazole 500 SC	75	0.15
	Difenoconazole 500 SC	125	0.25
	Difcor250 EC	125	0.5
KCP 6.2-41	Difenoconazole 500 SC	75	0.15
	Difenoconazole 500 SC	125	0.25
	Difcor250 EC	125	0.5
	Sirena	90	1.5

Trial results

The following tables summarize the data gathered in the efficacy trials per EPPO Zone and per disease. Results applicable for the Maritime EPPO Zone and all results applicable for Poland are shown in separate tables. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.2-47 Efficacy of Difenoconazole 500 SC against ALTEBA in Maritime EPPO Zone

			6.2-42		6.2-42		6.2-40		6.2-40	
Part Rated			LEAF		LEAF		POD		POD	
Rating Type			PESSEV		PESINC		PESSEV		PESINC	
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK	
Trt-Eval Interval			29 DA-A		29 DA-A		67 DA-A		67 DA-A	
Name	Rate	Unit								
UNTREATED (%)			7.78	a	65.00	a	30.00	a	100.00	a
Difenoconazole 500 SC	0.15	L/ha	57.43	a	44.05	a	8.33	b	0.00	a
Difenoconazole 500 SC	0.25	L/ha	41.17	a	27.56	ab	33.33	a	0.00	a
Difcor 250 EC	0.5	L/ha	68.37	a	56.37	a	33.33	a	0.00	a

Table 3.2-48 Efficacy of Difenoconazole 500 SC against ERYSCR in Maritime EPPO Zone

			6.2-40	
Part Rated			LEAF	
Rating Type			PESSEV	
Rating Unit			%UNCK	
Trt-Eval Interval			28 DA-A	
Name	Rate	Unit		
UNTREATED (%)			45	a
Difenoconazole 500 SC	0.15	L/ha	10	b
Difenoconazole 500 SC	0.25	L/ha	32.5	a
Difcor 250 EC	0.5	L/ha	27.5	a

Table 3.2-49 Efficacy of Difenoconazole 500 SC against PYRPBR in Maritime EPPO Zone

			6.2-44		6.2-44	
Part Rated			LEAF		LEAF	
Rating Type			PESSEV		PESINC	
Rating Unit			%UNCK		%UNCK	
Trt-Eval Interval			28 DA-A		28 DA-A	
Name	Rate	Unit				
UNTREATED (%)			4.75	a	21.25	a
Difenoconazole 500 SC	0.15	L/ha	5	c	21.2	c
Difenoconazole 500 SC	0.25	L/ha	21.25	b	31.1	bc
Difcor 250 EC	0.5	L/ha	52.5	a	47.24	ab

Table 3.2-50 Efficacy of Difenoconazole 500 SC against SCLESC in Maritime EPPO Zone

			6.2-41		6.2-44							
Part Rated			STEM		STEM							
Rating Type			PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK							
Trt-Eval Interval			21 DA-A		56 DA-A							
Name	Rate	Unit										
UNTREATED (%)			6.07	a	0.08	a						
Difenoconazole 500 SC	0.15	L/ha	78.91	b	0.00	a						
Difenoconazole 500 SC	0.25	L/ha	93.25	c	0.00	a						
Difcor 250 EC	0.5	L/ha	86.16	bc	0.00	a						
Sirena	1.5	L/ha	85.67	bc								
			6.2-41		6.2-44							
Part Rated			STEM		STEM							
Rating Type			PESINC		PESINC							
Rating Unit			%UNCK		%UNCK		Summary					
Trt-Eval Interval			21 DA-A		56 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (%)			57.00	a	7.00	a	32.00	2	7.00	57.00	32.00	35.36
Difenoconazole 500 SC	0.15	L/ha	56.14	b	28.57	ab	42.36	2	28.57	56.14	42.36	19.49
Difenoconazole 500 SC	0.25	L/ha	68.42	b	0.00	a	34.21	2	0.00	68.42	34.21	48.38
Difcor 250 EC	0.5	L/ha	63.16	b	28.57	ab	45.86	2	28.57	63.16	45.86	24.46
Sirena	1.5	L/ha	61.40	b			61.40	1	61.40	61.40	61.40	

Table 3.2-51 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials in the Maritime EPPO Zone

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
ALTEBA	LEAF	PESSEV	29	1	7.78	-	-	0.25 L/ha	41.17	-	-	0.5 L/ha	68.37	-	-	1x <
		PESINC	29	1	65.00	-	-	0.25 L/ha	27.56	-	-	0.5 L/ha	56.37	-	-	1x <
	POD	PESSEV	67	1	30.00	-	-	0.25 L/ha	33.33	-	-	0.5 L/ha	33.33	-	-	1x =
PYRBR	LEAF	PESSEV	28	1	4.75	-	-	0.25 L/ha	21.25	-	-	0.5 L/ha	52.5	-	-	1x <
		PESINC	28	1	21.25	-	-	0.25 L/ha	31.1	-	-	0.5 L/ha	47.24	-	-	1x <
SCLESC	STEM	PESSEV	21	1	6.07	-	-	0.25 L/ha	93.25	-	-	0.5 L/ha	86.16	-	-	1x >
		PESINC	21-56	2	32.00	7.00	57.00	0.25 L/ha	34.21	0.00	68.42	0.5 L/ha	45.86	28.57	63.16	1x >, 1x <

Conclusion

The 4 bridging trials performed in the Maritime EPPO Zone of which the data is shown in the tables above demonstrate that Difenoconazole 500 SC is highly comparable to Difcor 250 EC and are therefore in support of its registration. Additionally the Polish trials are also valid for the Czech Republic and Germany, therefore a summary of all trials from the Maritime EPPO Zone combined with the results of the Polish trials is shown below.
Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

Table 3.2-52 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials in the Maritime EPPO Zone + Polish trials

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
ALTEBA	LEAF	PESSEV	28-29	2	10.02	7.78	12.25	0.25 L/ha	56.21	41.17	71.25	0.5 L/ha	71.69	68.37	75.00	1x <, 1x =
		PESINC	28-29	2	65.25	65.00	65.50	0.25 L/ha	52.50	33.33	71.67	0.5 L/ha	58.33	33.33	83.33	1x <, 1x =
	POD	PESSEV	43-67	2	17.25	4.50	30.00	0.25 L/ha	52.50	33.33	71.67	0.5 L/ha	58.33	33.33	83.33	1x =, 1x <
		PESINC	43	1	35.75	-	-	0.25 L/ha	69.01	-	-	0.5 L/ha	64.11	-	-	1x =
PYRBR	LEAF	PESSEV	28	1	4.75	-	-	0.25 L/ha	21.25	-	-	0.5 L/ha	52.5	-	-	1x <
		PESINC	28	1	21.25	-	-	0.25 L/ha	31.1	-	-	0.5 L/ha	47.24	-	-	1x <
SCLESC	STEM	PESSEV	21-43	2	29.93	6.07	53.79	0.25 L/ha	74.66	56.07	93.25	0.5 L/ha	73.56	60.96	86.16	1x >, 1x =
		PESINC	21-56	3	41.00	7.00	59.00	0.25 L/ha	36.37	0.00	68.42	0.5 L/ha	44.70	28.57	63.16	1x >, 1x =, 1x <

Trials applicable for Poland

Table 3.2-53 Efficacy of Difenoconazole 500 SC against ALTEBA for North-East EPPO Zone

			6.2-46	
Part Rated			LEAF	
Rating Type			PESSEV	
Rating Unit			%UNCK	
Trt-Eval Interval			28 DA-A	
Name	Rate	Unit		
UNTREATED (%)			12.25	a
Difenoconazole 500 SC	0.15	L/ha	60.42	c
Difenoconazole 500 SC	0.25	L/ha	71.25	b
Difcor 250 EC	0.5	L/ha	75.00	ab

			6.2-46	
Part Rated			LEAF	
Rating Type			PESINC	
Rating Unit			%UNCK	
Trt-Eval Interval			28 DA-A	
Name	Rate	Unit		
UNTREATED (%)			65.50	a
Difenoconazole 500 SC	0.15	L/ha	26.22	c
Difenoconazole 500 SC	0.25	L/ha	43.68	b
Difcor 250 EC	0.5	L/ha	48.18	b

			6.2-40		6.2-46							
Part Rated			POD		POD							
Rating Type			PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		Summary					
Trt-Eval Interval			67 DA-A		43 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (%)			30.00	a	4.50	a	17.25	2	4.50	30.00	17.25	18.03
Difenoconazole 500 SC	0.15	L/ha	8.33	b	69.17	bc	38.75	2	8.33	69.17	38.75	43.02
Difenoconazole 500 SC	0.25	L/ha	33.33	a	71.67	abc	52.50	2	33.33	71.67	52.50	27.11
Difcor 250 EC	0.5	L/ha	33.33	a	83.33	a	58.33	2	33.33	83.33	58.33	35.36

			6.2-40		6.2-46							
Part Rated			POD		POD							
Rating Type			PESINC		PESINC							
Rating Unit			%UNCK		%UNCK		Summary					
Trt-Eval Interval			67 DA-A		43 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (%)			100.00	a	35.75	a	67.88	2	35.75	100.00	67.88	45.43
Difenoconazole 500 SC	0.15	L/ha	0.00	a	63.75	ab	31.88	2	0.00	63.75	31.88	45.08
Difenoconazole 500 SC	0.25	L/ha	0.00	a	69.01	ab	34.51	2	0.00	69.01	34.51	48.80
Difcor 250 EC	0.5	L/ha	0.00	a	64.11	ab	32.06	2	0.00	64.11	32.06	45.33

Table 3.2-54 Efficacy of Difenoconazole 500 SC against ERYSCR for North-East EPPO Zone

			6.2-40	
Part Rated			LEAF	
Rating Type			PESSEV	
Rating Unit			%UNCK	
Trt-Eval Interval			28 DA-A	
Name	Rate	Unit		
UNTREATED (%)			45	a
Difenoconazole 500 SC	0.15	L/ha	10	b
Difenoconazole 500 SC	0.25	L/ha	32.5	a
Difcor 250 EC	0.5	L/ha	27.5	a

Table 3.2-55 Efficacy of Difenoconazole 500 SC against SCLESC for North-East EPPO Zone

			6.2-41		6.2-46		Summary					
Part Rated			STEM		STEM							
Rating Type			PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK							
Trt-Eval Interval			21 DA-A		43 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (%)			6.07	a	53.79	a	29.93	2	6.07	53.79	29.93	33.74
Difenoconazole 500 SC	0.15	L/ha	78.91	b	45.16	b	62.03	2	45.16	78.91	62.03	23.87
Difenoconazole 500 SC	0.25	L/ha	93.25	c	56.07	c	74.66	2	56.07	93.25	74.66	26.29
Difcor 250 EC	0.5	L/ha	86.16	bc	60.96	c	73.56	2	60.96	86.16	73.56	17.82
Sirena	1.5	L/ha	85.67	bc			85.67	1	85.67	85.67	85.67	
			6.2-41		6.2-46		Summary					
Part Rated			STEM		STEM							
Rating Type			PESINC		PESINC							
Rating Unit			%UNCK		%UNCK							
Trt-Eval Interval			21 DA-A		43 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (%)			57.00	a	59.00	a	58.00	2	57.00	59.00	58.00	1.41
Difenoconazole 500 SC	0.15	L/ha	56.14	b	18.64	b	37.39	2	18.64	56.14	37.39	26.51
Difenoconazole 500 SC	0.25	L/ha	68.42	b	40.68	c	54.55	2	40.68	68.42	54.55	19.62
Difcor 250 EC	0.5	L/ha	63.16	b	42.37	c	52.77	2	42.37	63.16	52.77	14.70
Sirena	1.5	L/ha	61.40	b			61.40	1	61.40	61.40	61.40	

Table 3.2-56 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials applicable for Poland

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
ALTEBA	LEAF	PESSEV	28	1	12.25	-	-	0.25 L/ha	71.25	-	-	0.5 L/ha	75.00	-	-	1x =
		PESINC	28	1	65.50	-	-	0.25 L/ha	43.68	-	-	0.5 L/ha	48.18	-	-	1x =
	POD	PESSEV	43-67	2	17.25	4.50	30.00	0.25 L/ha	52.50	33.33	71.67	0.5 L/ha	58.33	33.33	83.33	1x =, 1x <
		PESINC	43	1	35.75	-	-	0.25 L/ha	69.01	-	-	0.5 L/ha	64.11	-	-	1x =
SCLESC	STEM	PESSEV	21-43	2	29.93	6.07	53.79	0.25 L/ha	74.66	56.07	93.25	0.5 L/ha	73.56	60.96	86.16	1x >, 1x =
		PESINC	21-43	2	58.00	57.00	59.00	0.25 L/ha	54.55	40.68	68.42	0.5 L/ha	52.77	42.37	63.16	1x >, 1x =

Conclusion

The 4 bridging trials performed in Poland (1), Germany (1) and the Czech Republic (1) of which the data is shown in the tables above demonstrate that Difenoconazole 500 SC is highly comparable to Difcor 250 EC and are therefore in support of its registration.

Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

3.2.3.5 Bridging trials for Difenoconazole 500 SC on potato

In total, 12 bridging trials were performed on potato of which 5 were performed in Poland, which is part of the North-East EPPO Zone and 7 were performed in the Maritime EPPO Zone (Belgium, the Czech Republic, Germany, the Netherlands, Sweden and the UK). However, it should be noted that trials performed in the Czech Republic and Germany are also valid for Poland. The trial methodology, crops species, trial site information; application details, location and soil type are presented in Table 3.2-57 and Table 3.2-58. According to EPPO Guideline 1/307(1) 3 to 5 efficacy trials are required per major target but this requirement is lowered to 2 to 4 crops when a range of crops and/or diseases is requested, as is the case for this dossier.
Remark: More applications were made than the 4 requested in the GAP, however this is because starting from flowering, 4 applications are not sufficient to protect the crop until harvest, so the applications were continued until harvest. Assessments were made before every new application so that the efficacy of each individual application is clear.

Table 3.2-57 Details on trial methodology

Guidelines	General guidelines	EPPO PP 1/152 (4), 1/135 (4), 1/181 (4)
	Specific guidelines	EPPO 1/263(1)
Experimental design	Plot design	Field trials
	Number of replications	4
Crop	Trials per crop	12
	Varieties per crop	12
Application	Crop stage (BBCH) at application	1st application: 41-71 last application: 42-75
	Applications	5-8 (post-emergence)
	Spray volumes	150-400 L/ha
Assessment	Assessment types	1) Phytotoxicity 2) Efficacy against fungal diseases 3) Yield (quality)
	Assessment dates	1) From 0 DA-A 2) 0-88 DA-A 3) Harvest
	Field / Greenhouse...	Field
	GEP	All trials were performed according to GEP

Table 3.2-58 Summary form of information concerning trial sites and application details

Type of trials	effectiveness
Identity of the product under test	Difenoconazole 500 SC (SC formulation of 500 g/L difenoconazole)
Crop:	Potato
Harmful organism	Fungal diseases (ALTESO)
Responsible body for reporting trial	See second column
Date of submission	April 2020

Trial reference	**Testing unit**	**Trial location** **Soil type**	**Test method** **Plot size**	**Application details**				**Remarks** (variety)
				Appl. Date(s)	**Method, amount**	**Applic. technique**	**Growth stage crop at appl.**	
FE-18-B-DIF-NARITA-CZ01 KCP 6.2-53	Ing. Jitka Mareckova, ZS Krasne Udoli	Krasne Udoli (CZ) Sandy loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 25 m²	18/05/2018 25/07/2018	Overall spray, 300 L/ha	Spray boom	BBCH 41-75	Anushka
FE-18-B-DIF-NARITA-DE04 KCP 6.2-54	Quintus GmbH	Jabel (DE) Silty sand	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24 m²	20/06/2018 19/07/2018	Overall spray, 200 L/ha	Spray boom	BBCH 61-42	Privileg
FE-18-B-DIF-NARITA-NL06 KCP 6.2-55	Proeftuin Zwaagdijk	Wijster (NL) Sandy clay	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24 m²	26/06/2018 22/08/2018	Overall spray, 200 L/ha	Spray boom	BBCH 40-48	Fontane
181363 FE-18-B-DIF-NARITA-NL06_2 KCP 6.2-56	Proeftuin Zwaagdijk	Zwaagdijk (NL) Sandy clay	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 20.25 m²	15/06/2018 24/08/2018	Overall spray, 300 L/ha	Spray boom	BBCH 42-69	Actrice
FE-19-C-DifcorSC-	Proeftuin Zwaagdijk	Doel (BE) Sandy clay	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1)	16/06/2019 21/08/2019	Overall spray, 300 L/ha	Spray boom	BBCH 51-93	Innovator

BE04 KCP 6.2-57			30 m²					
FE-19-C-DifcorSC-NL05 KCP 6.2-58	Proeftuin Zwaagdijk	Wijster (NL) Sandy clay	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24 m²	08/07/2019 09/09/2019	Overall spray, 300 L/ha	Spray boom	BBCH 42-69	Fontane
FE-19-C-DifcorSC-SE03 KCP 6.2-59	HS Skåne HUSEC	Kristianstad (SE) Silt	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 30 m²	10/07/2019 26/09/2019	Overall spray, 300 L/ha	Spray boom	BBCH 64-98	Kuras
FE-18-A-DIF-NARITA-PL01 KCP 6.2-60	Field Research Support	Radliniec (PL) Loamy sand	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24 m²	19/06/2018 22/08/2018	Overall spray, 150 L/ha	Spray boom	BBCH 67-85	Skawa
FE-18-A-DIF-NARITA-PL02 KCP 6.2-61	Field Research Support	Dębowa Góra (PL) Sandy loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24.3 m²	23/07/2018 10/09/2018	Overall spray, 300 L/ha	Spray boom	BBCH 71-89	Hermes
FE-18-A-DIF-NARITA-PL03 KCP 6.2-62	InHort	Kamion (PL) Sandy clay loam	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24 m²	21/06/2018 03/09/2018	Overall spray, 300 L/ha	Spray boom	BBCH 60-81	Omega
FE-19-C-DifcorSC-PL06 KCP 6.2-63	Field Research Support	Bożydar (PL) Loamy sand	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24 m²	28/06/2019 26/08/2019	Overall spray, 300 L/ha	Spray boom	BBCH 59-89	Gala
FE-19-C-DifcorSC-PL07 KCP 6.2-64	SynTech Research Poland Sp. z o.o.	Szczepankowo (PL) Loamy sand	EPPO 1/152 (3), 1/181 (3), 1/135 (3), 1/263(1) 24 m²	26/07/2019 04/10/2019	Overall spray, 400 L/ha	Spray boom	BBCH 67-81	Zuzanna

Details of the formulations tested are provided in Table 3.2-59 details of application rates are provided in Table 3.2-60.

Table 3.2-59 Formulation included in the efficacy trials

Product	Active substance	Active substance content	Formulation type
Difcor 250 EC = Difenoconazole 250 EC	Difenoconazole	250 g/L	EC
Difenoconazole 500 SC	Difenoconazole	500 g/L	SC

Table 3.2-60 Application rates

Trial reference number	Product	Application rate	
		kg as/ha	Product kg-L/ha
KCP 6.2-53, 55, 57, 58, 60, 60-64	Difenoconazole 500 SC	75	0.15
	Difenoconazole 500 SC	125	0.25
	Difcor 250 EC	125	0.5
KCP 6.2-54, 56	Difenoconazole 500 SC	75	0.15
	Difenoconazole 500 SC	125	0.22
	Difcor 250 EC	125	0.5
KCP 6.2-59	Difenoconazole 500 SC	75	0.15
	Difenoconazole 500 SC	125	0.25
	Difcor 250 EC	100	0.4
	Difcor 250 EC	125	0.5

Trial results

The following tables summarize the data gathered in the efficacy trials per EPPO Zone and per disease. Results applicable for the Maritime EPPO Zone and all results applicable for Poland are shown in separate tables. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.2-61 Efficacy of Difenoconazole 500 SC against ALTESO in Maritime EPPO Zone

			6.2-53		6.2-54		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59		Summary					
Rating Type			AUDPC		AUDPC		AUDPC		AUDPC		AUDPC		AUDPC		AUDPC							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			45		50		70		82		51		80		90							
Days After First/Last Applic.			8		21		13		12		15		17		12		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (#)			166.00	a	439.75	a	830.31	a	2003.00	a	730.44	a	1050.63	a	2793.80	a	1144.85	7	166.00	2793.80	830.31	930.08
Difenoconazole 500 SC	0.15	L/ha	73.27	ab	62.66	a	69.62	b	40.87	c	59.42	c	59.47	b	51.60	a	59.56	7	40.87	73.27	59.47	10.89
Difenoconazole 500 SC	0.22	L/ha			61.36	a			60.48	ab							60.92	2	60.48	61.36	60.92	0.62
Difenoconazole 500 SC	0.25	L/ha	60.32	b			90.10	a			72.31	b	73.43	a	67.95	a	72.82	5	60.32	90.10	72.31	10.95
Difcor 250 EC	0.4	L/ha													69.49	a	69.49	1	69.49	69.49	69.49	
Difcor 250 EC	0.5	L/ha	80.10	a	57.82	ab	91.65	a	51.40	b	81.47	a	77.26	a	74.99	a	73.53	7	51.40	91.65	77.26	14.07
			6.2-55		6.2-56		6.2-57		6.2-58													
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV													
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK													
Days After First			0		0		0		0													
Days After First/Last Applic.			0		0		0		0													
Name	Rate	Unit																				
UNTREATED (%)			2.75	a	5.25	a	0.75	a	0.94	a												
Difenoconazole 500 SC	0.15	L/ha	0.00	a	66.67	b	100.00	a	25.00	a												
Difenoconazole 500 SC	0.22	L/ha			61.90	b																
Difenoconazole 500 SC	0.25	L/ha	0.00	a			100.00	a	20.83	a												
Difcor 250 EC	0.4	L/ha																				
Difcor 250 EC	0.5	L/ha	0.00	a	66.67	b	100.00	a	25.00	a												

			6.2-54		6.2-55		6.2-56		6.2-57		6.2-58									
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK									
Days After First			10		8		9		7		10							Summary		
Days After First/Last Applic.			10		8		9		7		10						Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																		
UNTREATED (%)			8.50	a	5.25	a	35.00	a	6.88	a	5.00	a					12.13	5	5.00	35.00	6.88	12.86
Difenoconazole 500 SC	0.15	L/ha	39.29	a	45.36	abc	40.63	b	97.29	a	72.50	a					59.01	5	39.29	97.29	45.36	25.30
Difenoconazole 500 SC	0.22	L/ha	20.00	a			65.50	ab									42.75	2	20.00	65.50	42.75	32.17
Difenoconazole 500 SC	0.25	L/ha			31.96	bcd			98.08	a	69.17	a					66.40	3	31.96	98.08	69.17	33.15
Difcor 250 EC	0.5	L/ha	27.14	a	52.68	abc	53.75	ab	98.42	a	73.33	a					61.06	5	27.14	98.42	53.75	26.55

			6.2-53		6.2-54		6.2-55		6.2-57		6.2-58									
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK									
Days After First			18		19		21		21		23							Summary		
Days After First/Last Applic.			9		9		6		7		13						Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																		
UNTREATED (%)			1.50	a	22.00	a	11.25	a	15.00	a	10.00	a					14.56	4	10.00	22.00	13.13	5.39
Difenoconazole 500 SC	0.15	L/ha	100.00	a	77.07	ab	78.23	a	66.19	b	64.58	b					71.52	4	64.58	78.23	71.63	7.13
Difenoconazole 500 SC	0.22	L/ha			74.57	ab											74.57	1	74.57	74.57	74.57	
Difenoconazole 500 SC	0.25	L/ha	100.00	a			92.68	a	75.36	ab	80.42	ab					82.82	3	75.36	92.68	80.42	8.91
Difcor 250 EC	0.5	L/ha	100.00	a	64.14	abc	93.06	a	84.52	a	81.67	ab					80.85	4	64.14	93.06	83.10	12.14

			6.2-53		6.2-54		6.2-55		6.2-56		6.2-59									
Part Rated			PLANT		PLANT		PLANT		PLANT		PLANT									
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK									
Days After First			28		29		29		28		26							Summary		
Days After First/Last Applic.			10		10		8		19		12						Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																		
UNTREATED (%)			2.50	a	25.00	a	13.00	a	36.25	a	0.00	a					24.75	3	13.00	36.25	25.00	11.63
Difenoconazole 500 SC	0.15	L/ha	83.33	a	64.92	ab	88.33	a	45.83	ab	90.00	a					66.36	3	45.83	88.33	64.92	21.29
Difenoconazole 500 SC	0.22	L/ha			75.92	a			51.39	ab							63.66	2	51.39	75.92	63.66	17.35
Difenoconazole 500 SC	0.25	L/ha	66.67	a			95.83	a			87.50	a					95.83	1	95.83	95.83	95.83	
Difcor 250 EC	0.4	L/ha									95.00	a										
Difcor 250 EC	0.5	L/ha	91.67	a	76.08	a	95.83	a	56.60	a	65.00	a					76.17	3	56.60	95.83	76.08	19.62

			6.2-53		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59		Summary					
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			37		36		36		36		39		36							
Days After First/Last Applic.			9		7		8		7		9		10		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																		
UNTREATED (%)			8.00	a	14.50	a	23.75	a	24.38	a	16.25	a	0.01	a	17.38	5	8.00	24.38	16.25	6.84
Difenoconazole 500 SC	0.15	L/ha	69.29	a	78.25	ab	19.58	b	55.91	b	53.24	b	75.00	a	55.25	5	19.58	78.25	55.91	22.38
Difenoconazole 500 SC	0.22	L/ha					57.92	a							57.92	1	57.92	57.92	57.92	
Difenoconazole 500 SC	0.25	L/ha	42.14	a	96.45	a			67.50	a	67.56	a	20.00	a	68.41	4	42.14	96.45	67.53	22.20
Difcor 250 EC	0.4	L/ha											92.50	a						
Difcor 250 EC	0.5	L/ha	76.43	a	91.94	a	49.58	a	79.20	a	71.85	a	57.50	a	73.80	5	49.58	91.94	76.43	15.46

			6.2-53		6.2-55		6.2-56		6.2-57		6.2-58		Summary					
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV		PESSEV							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			45		49		50		51		51							
Days After First/Last Applic.			8		13		6		15		5		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																
UNTREATED (%)			15.00	a	16.00	a	18.75	a	11.25	a	22.50	a	16.70	5	11.25	22.50	16.00	4.21
Difenoconazole 500 SC	0.15	L/ha	66.67	a	69.58	b	43.75	a	56.25	b	58.06	b	58.86	5	43.75	69.58	58.06	10.14
Difenoconazole 500 SC	0.22	L/ha				a	45.83	a					45.83	1	45.83	45.83	45.83	
Difenoconazole 500 SC	0.25	L/ha	56.33	a	96.96	a			70.83	ab	70.40	a	73.63	4	56.33	96.96	70.62	16.95
Difcor 250 EC	0.5	L/ha	70.00	a	95.83	a	45.83	a	70.83	ab	76.46	a	71.79	5	45.83	95.83	70.83	17.87

			6.2-55		6.2-56		6.2-58		6.2-59		Summary						
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV								
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK								
Days After First			57		57		63		57								
Days After First/Last Applic.			8		7		11		10		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit														
UNTREATED (%)			14.38	a	22.50	a	21.25	a	21.25	a	19.85	4	14.38	22.50	21.25	3.69
Difenoconazole 500 SC	0.15	L/ha	59.92	b	42.50	b	60.00	a	84.50	b	61.73	4	42.50	84.50	59.96	17.27
Difenoconazole 500 SC	0.22	L/ha			72.50	a					72.50	1	72.50	72.50	72.50	
Difenoconazole 500 SC	0.25	L/ha	97.08	a			71.46	a	93.88	a	87.47	3	71.46	97.08	93.88	13.96
Difcor 250 EC	0.4	L/ha							91.75	a	91.75	1	91.75	91.75	91.75	
Difcor 250 EC	0.5	L/ha	98.33	a	43.75	b	77.42	a	95.25	a	78.69	4	43.75	98.33	86.34	25.05

			6.2-55		6.2-56		6.2-58		6.2-59													
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV													
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK													
Days After First			70		70		70		72													
Days After First/Last Applic.			13		13		7		2								Summary					
Name	Rate	Unit															Mean	n	Min	Max	Median	Stdev
UNTREATED (%)			12.50	a	16.25	a	11.88	a	90.00	a							32.66	4	11.88	90.00	14.38	38.28
Difenoconazole 500 SC	0.15	L/ha	65.00	b	36.46	bc	55.83	a	63.98	b							55.32	4	36.46	65.00	59.91	13.22
Difenoconazole 500 SC	0.22	L/ha			72.92	ab											72.92	1	72.92	72.92	72.92	########
Difenoconazole 500 SC	0.25	L/ha	98.33	a			74.17	a	81.21	a							84.57	3	74.17	98.33	81.21	12.43
Difcor 250 EC	0.4	L/ha							82.00	a							82.00	1	82.00	82.00	82.00	
Difcor 250 EC	0.5	L/ha	100.00	a	39.58	abc	76.58	a	79.73	a							73.97	4	39.58	100.00	78.16	25.17

			6.2-56		6.2-58		6.2-59															
Rating Type			PESSEV		PESSEV		PESSEV															
Rating Unit			%UNCK		%UNCK		%UNCK															
Days After First			82		80		79															
Days After First/Last Applic.			12		17		1										Summary					
Name	Rate	Unit															Mean	n	Min	Max	Median	Stdev
UNTREATED (%)			11.25	a	8.13	a	97.25	a									38.88	3	8.13	97.25	11.25	50.58
Difenoconazole 500 SC	0.15	L/ha	55.83	a	43.75	b	38.37	a									45.98	3	38.37	55.83	43.75	8.94
Difenoconazole 500 SC	0.22	L/ha	38.33	a													38.33	1	38.33	38.33	38.33	
Difenoconazole 500 SC	0.25	L/ha			81.25	a	54.87	a									68.06	2	54.87	81.25	68.06	18.65
Difcor 250 EC	0.4	L/ha					57.68	a									57.68	1	57.68	57.68	57.68	
Difcor 250 EC	0.5	L/ha	36.67	a	87.08	a	68.96	a									64.24	3	36.67	87.08	68.96	25.53

Table 3.2-62 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials in the Maritime EPPO Zone

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
ALTESO	PLANT	AUDPC	45-90	7	1144.85	166.00	2793.80	0.25 L/ha	69.42	60.32	90.10	0.5 L/ha	73.53	51.40	91.65	1x >, 3x =, 3x <
		PESSEV	7-10	5	12.13	5.00	35.00	0.25 L/ha	56.94	20.00	98.08	0.5 L/ha	61.06	27.14	98.42	1x >, 1x =, 2 <
		PESSEV	19-23	4	14.56	10.00	22.00	0.25 L/ha	80.76	74.57	92.68	0.5 L/ha	80.85	64.14	93.06	1x >, 2x =, 1x <
		PESSEV	28-29	3	24.75	13.00	36.25	0.25 L/ha	74.38	51.39	95.83	0.5 L/ha	76.17	56.60	95.83	3x =
		PESSEV	36-39	5	17.38	8.00	24.38	0.25 L/ha	66.31	42.14	96.45	0.5 L/ha	73.80	49.58	91.94	1x >, 2x =, 2x <
		PESSEV	45-51	5	16.70	11.25	22.50	0.25 L/ha	68.07	45.83	96.96	0.5 L/ha	71.79	45.83	95.83	3x =, 2x <
		PESSEV	57-63	4	19.85	14.38	22.50	0.25 L/ha	83.73	71.46	97.08	0.5 L/ha	78.69	43.75	98.33	2x >, 2x =
		PESSEV	70-72	4	32.66	11.88	90.00	0.25 L/ha	81.66	72.92	98.33	0.5 L/ha	73.97	39.58	100.00	1x >, 3x =
		PESSEV	79-82	3	38.88	8.13	97.25	0.25 L/ha	58.15	38.33	81.25	0.5 L/ha	64.24	36.67	87.08	1x =, 2x <

Conclusion

The 7 bridging trials performed in the Maritime EPPO Zone of which the data is shown in the tables above demonstrate that Difenoconazole 500 SC is highly comparable to Difcor 250 EC and are therefore in support of its registration. Additionally the Polish trials are also valid for the Czech Republic and Germany, these results can be found below and also show high similarity between Difenoconazole 500 SC and Difcor 250 EC. Additionally the Polish trials are also valid for the Czech Republic and Germany, therefore a summary of all trials from the Maritime EPPO Zone combined with the results of the Polish trials is shown below. Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

Table 3.2-63 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials in the Maritime EPPO Zone + Polish trials

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
ALTESO	PLANT	AUDPC	45-90	12	1008.88	166.00	2793.80	0.25 L/ha	72.83	54.23	90.10	0.5 L/ha	72.90	46.31	91.65	3x >, 6x =, 3x <
		PESSEV	7-14	6	11.11	5.00	35.00	0.25 L/ha	62.39	20.00	98.08	0.5 L/ha	69.99	27.14	100.00	1x >, 2x =, 2x <
		PESSEV	19-23	4	14.56	10.00	22.00	0.25 L/ha	80.76	74.57	92.68	0.5 L/ha	80.85	64.14	93.06	1x >, 1x =, 1x <
		PESSEV	28-29	4	21.69	12.50	36.25	0.25 L/ha	76.83	51.39	95.83	0.5 L/ha	77.75	56.60	95.83	4x =
		PESSEV	36-42	9	15.81	7.75	24.38	0.25 L/ha	70.82	42.14	96.45	0.5 L/ha	72.67	49.58	91.94	3x >, 4x =, 2x <
		PESSEV	45-53	8	17.04	9.25	25.13	0.25 L/ha	70.90	45.83	96.96	0.5 L/ha	70.17	39.64	95.83	2x >, 4x =, 2x <
		PESSEV	56-64	8	19.09	5.80	28.75	0.25 L/ha	78.01	43.33	97.08	0.5 L/ha	74.17	42.08	98.33	3x >, 5x =
		PESSEV	70-74	7	29.43	7.75	90.00	0.25 L/ha	82.33	72.92	98.33	0.5 L/ha	76.78	39.58	100.00	1x >, 6x =
		PESSEV	79-85	6	37.17	8.13	97.25	0.25 L/ha	69.68	38.33	85.04	0.5 L/ha	71.96	36.67	87.08	4x =, 2x <

North-East EPPO Zone

Table 3.2-64 Efficacy of Difenoconazole 500 SC against ALTESO for North-East EPPO Zone

			6.2-53		6.2-54		6.2-60		6.2-61		6.2-62		6.2-63		6.2-64		Summary					
Rating Type			AUDPC		AUDPC		AUDPC		AUDPC		AUDPC		AUDPC		AUDPC							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK							
Days After First			45		50		85		49		88		59		84							
Days After First/Last Applic.			8		21		21		10		14		10		14		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (#)			166.00	a	439.75	a	246.96	a	257.88	a	1100.84	a	308.25	a	2178.75	a	671.20	7	166.00	2178.75	308.25	735.83
Difenoconazole 500 SC	0.15	L/ha	73.27	ab	62.66	a	72.80	d	75.40	ab	86.61	a	32.97	b	67.37	c	67.30	7	32.97	86.61	72.80	16.85
Difenoconazole 500 SC	0.22	L/ha			61.36	a											61.36	1	61.36	61.36	61.36	
Difenoconazole 500 SC	0.25	L/ha	60.32	b			81.42	a	84.09	a	87.06	a	54.23	a	81.16	a	74.71	6	54.23	87.06	81.29	13.81
Difcor 250 EC	0.5	L/ha	80.10	a	57.82	ab	76.45	c	71.63	ab	86.57	a	46.31	ab	79.12	a	71.14	7	46.31	86.57	76.45	14.17

			6.2-54		6.2-62		6.2-64										Summary					
Rating Type			PESSEV		PESSEV		PESSEV															
Rating Unit			%UNCK		%UNCK		%UNCK															
Days After First			10		11		14															
Days After First/Last Applic.			10		11		14										Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (%)			8.50	a	0.63	a	6.00	a									7.25	2	6.00	8.50	7.25	1.77
Difenoconazole 500 SC	0.15	L/ha	39.29	a	100.00	a	74.29	bc									56.79	2	39.29	74.29	56.79	24.75
Difenoconazole 500 SC	0.22	L/ha	20.00	a													20.00	1	20.00	20.00	20.00	
Difenoconazole 500 SC	0.25	L/ha			100.00	a	89.64	a									89.64	1	89.64	89.64	89.64	
Difcor 250 EC	0.5	L/ha	27.14	a	100.00	a	84.64	ab									55.89	2	27.14	84.64	55.89	40.66

			6.2-53		6.2-54		6.2-60		6.2-62													
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV													
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK													
Days After First			18		19		20		21								Summary					
Days After First/Last Applic.			9		9		10		10								Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (%)			1.50	a	22.00	a	0.23	a	3.71	a							22.00	1	22.00	22.00	22.00	
Difenoconazole 500 SC	0.15	L/ha	100.00	a	77.07	ab	77.08	b	80.92	b							77.07	1	77.07	77.07	77.07	
Difenoconazole 500 SC	0.22	L/ha			74.57	ab											74.57	1	74.57	74.57	74.57	
Difenoconazole 500 SC	0.25	L/ha	100.00	a			87.50	ab	89.59	a												
Difcor 250 EC	0.5	L/ha	100.00	a	64.14	abc	82.08	b	92.36	a							64.14	1	64.14	64.14	64.14	

			6.2-53		6.2-54		6.2-64															
Rating Type			PESSEV		PESSEV		PESSEV															
Rating Unit			%UNCK		%UNCK		%UNCK															
Days After First			28		29		28										Summary					
Days After First/Last Applic.			10		10		14										Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (%)			2.50	a	25.00	a	12.50	a									18.75	2	12.50	25.00	18.75	8.84
Difenoconazole 500 SC	0.15	L/ha	83.33	a	64.92	ab	68.33	bc									66.63	2	64.92	68.33	66.63	2.41
Difenoconazole 500 SC	0.22	L/ha			75.92	a											75.92	1	75.92	75.92	75.92	
Difenoconazole 500 SC	0.25	L/ha	66.67	a			84.17	a									84.17	1	84.17	84.17	84.17	
Difcor 250 EC	0.5	L/ha	91.67	a	76.08	a	82.50	a									79.29	2	76.08	82.50	79.29	4.54

			6.2-53		6.2-60		6.2-61		6.2-62		6.2-63		6.2-64									
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV		PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK									
Days After First			37		41		39		42		39		42				Summary					
Days After First/Last Applic.			9		10		10		10		11		14				Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (%)			8.00	a	1.35	a	9.20	a	15.98	a	7.75	a	22.50	a			12.69	5	7.75	22.50	9.20	6.44
Difenoconazole 500 SC	0.15	L/ha	69.29	a	73.08	b	68.42	a	86.04	ab	33.93	b	73.00	ab			66.14	5	33.93	86.04	69.29	19.34
Difenoconazole 500 SC	0.25	L/ha	42.14	a	85.98	a	77.84	a	85.61	ab	60.36	a	82.00	a			69.59	5	42.14	85.61	77.84	18.15
Difcor 250 EC	0.5	L/ha	76.43	a	71.96	b	66.48	a	88.20	a	50.36	ab	80.00	a			72.29	5	50.36	88.20	76.43	14.53

			6.2-53		6.2-60		6.2-61		6.2-62		6.2-63									
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV		PESSEV									
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK									
Days After First			45		53		49		53		49						Summary			
Days After First/Last Applic.			8		12		10		11		10						Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																		
UNTREATED (%)			15.00	a	3.25	a	25.13	a	18.46	a	9.25	a					16.96	4	9.25	25.13	16.73	6.64
Difenoconazole 500 SC	0.15	L/ha	66.67	a	75.24	b	79.53	ab	86.82	ab	32.50	ab					66.38	4	32.50	86.82	73.10	24.07
Difenoconazole 500 SC	0.25	L/ha	56.33	a	82.56	a	83.42	a	86.65	ab	56.79	a					70.80	4	56.33	86.65	70.11	16.49
Difcor 250 EC	0.5	L/ha	70.00	a	77.14	b	74.82	ab	87.96	a	39.64	ab					68.11	4	39.64	87.96	72.41	20.44

			6.2-60		6.2-62		6.2-63		6.2-64											
Rating Type			PESSEV		PESSEV		PESSEV		PESSEV											
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK											
Days After First			64		63		59		56								Summary			
Days After First/Last Applic.			11		10		10		14								Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																		
UNTREATED (%)			5.80	a	18.75	a	20.00	a	28.75	a							18.33	4	5.80	28.75	19.38	9.46
Difenoconazole 500 SC	0.15	L/ha	71.09	c	87.20	a	28.75	a	70.52	ab							64.39	4	28.75	87.20	70.81	24.99
Difenoconazole 500 SC	0.25	L/ha	81.40	a	87.80	a	43.33	a	76.60	a							72.28	4	43.33	87.80	79.00	19.84
Difcor 250 EC	0.5	L/ha	74.94	b	86.40	a	42.08	a	75.17	a							69.65	4	42.08	86.40	75.06	19.14

			6.2-60		6.2-62		6.2-64													
Rating Type			PESSEV		PESSEV		PESSEV													
Rating Unit			%UNCK		%UNCK		%UNCK													
Days After First			74		74		70										Summary			
Days After First/Last Applic.			10		11		14										Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																		
UNTREATED (%)			7.75	a	20.14	a	47.50	a									25.13	3	7.75	47.50	20.14	20.34
Difenoconazole 500 SC	0.15	L/ha	73.54	c	87.48	a	60.56	bc									73.86	3	60.56	87.48	73.54	13.46
Difenoconazole 500 SC	0.25	L/ha	82.52	a	86.78	ab	80.39	a									83.23	3	80.39	86.78	82.52	3.25
Difcor 250 EC	0.5	L/ha	77.69	b	84.98	ab	78.89	a									80.52	3	77.69	84.98	78.89	3.91

			6.2-60		6.2-62		6.2-64															
Rating Type			PESSEV		PESSEV		PESSEV															
Rating Unit			%UNCK		%UNCK		%UNCK															
Days After First			85		88		84															
Days After First/Last Applic.			21		14		14															
																	Summary					
Name	Rate	Unit															Mean	n	Min	Max	Median	Stdev
UNTREATED (%)			8.25	a	20.64	a	77.50	a									35.46	3	8.25	77.50	20.64	36.93
Difenoconazole 500 SC	0.15	L/ha	71.14	d	85.09	a	67.71	c									74.65	3	67.71	85.09	71.14	9.21
Difenoconazole 500 SC	0.25	L/ha	76.32	c	85.04	a	82.29	a									81.22	3	76.32	85.04	82.29	4.46
Difcor 250 EC	0.5	L/ha	76.32	c	83.66	a	79.06	ab									79.68	3	76.32	83.66	79.06	3.71

Table 3.2-65 Orthogonal comparison between Difenoconazole 500 SC and Difcor 250 EC for trials applicable for Poland

Target	Part	Rating	Timing (DA-A)	n	Infestation in the untreated control (%)			% control								Comparison to standard >, <, = >5% difference
								Dose rate	Difcor 500 SC			Dose rate	Difcor 250 EC			
					Mean	Min	Max		Mean	Min	Max		Mean	Min	Max	
ALTESO	PLANT	AUDPC	45-90	12	1008.88	166.00	2793.80	0.25 L/ha	72.83	54.23	90.10	0.5 L/ha	72.90	46.31	91.65	3x >, 6x =, 3x <
		PESSEV	7-14	6	11.11	5.00	35.00	0.25 L/ha	62.39	20.00	98.08	0.5 L/ha	69.99	27.14	100.00	1x >, 2x =, 2x <
		PESSEV	19-23	4	14.56	10.00	22.00	0.25 L/ha	80.76	74.57	92.68	0.5 L/ha	80.85	64.14	93.06	1x >, 1x =, 1x <
		PESSEV	28-29	4	21.69	12.50	36.25	0.25 L/ha	76.83	51.39	95.83	0.5 L/ha	77.75	56.60	95.83	4x =
		PESSEV	36-42	9	15.81	7.75	24.38	0.25 L/ha	70.82	42.14	96.45	0.5 L/ha	72.67	49.58	91.94	3x >, 4x =, 2x <
		PESSEV	45-53	8	17.04	9.25	25.13	0.25 L/ha	70.90	45.83	96.96	0.5 L/ha	70.17	39.64	95.83	2x >, 4x =, 2x <
		PESSEV	56-64	8	19.09	5.80	28.75	0.25 L/ha	78.01	43.33	97.08	0.5 L/ha	74.17	42.08	98.33	3x >, 5x =
		PESSEV	70-74	7	29.43	7.75	90.00	0.25 L/ha	82.33	72.92	98.33	0.5 L/ha	76.78	39.58	100.00	1x >, 6x =
		PESSEV	79-85	6	37.17	8.13	97.25	0.25 L/ha	69.68	38.33	85.04	0.5 L/ha	71.96	36.67	87.08	4x =, 2x <

Conclusion

The 7 bridging trials performed in Poland (5), Germany (1) and the Czech Republic (1) of which the data is shown in the tables above demonstrate that Difenoconazole 500 SC is highly comparable to Difcor 250 EC and are therefore in support of its registration.

Reference is also made to the yield results under section 3.4.2, where the benefit of treatment with Difcor 250 EC is clearly demonstrated.

To support registration of the new formulation Difenoconazole 500 SC, data of Difcor 250 EC were provided to show comparability of both products and their performance across conducted trials and a new product based on a 'bridging' approach does not have an adverse impact on the effectiveness. Difcor 250 EC containing difenoconazole, is also produced by Globachem N.V., therefore premise that there is appropriate data access to the existing formulation. The applicant has stated that they hold authorisations in all MS included in this GAP table. The zRMS has not validated this and therefore can only confirm the efficacy status of PL authorisation. In this case, bridging trials are presented across a representative range of uses where the dose of active substance per hectare for both products is the same in all comparative (side-by-side) trials.
Presented trials have been conducted with Difenoconazole 500 SC at a dose rate of 0,25 L/ha and reference product Difcor 250 EC at a dose rate of 0,5 l/ha, against pathogens in potato, sugar beet and oilseed rape in 24 efficacy trials carried out between 2018 and 2019.
To demonstrate this data the details under individual uses are presented below.

Bridging trials for Difenoconazole 500 SC on sugar beet
Trials were performed on sugar beet were tested in 6 trials of which 2 were performed in Poland, which is part of the North-East EPPO Zone and 4 were performed in the Maritime EPPO Zone, the Czech Republic, Germany and the UK. A double application was made on the efficacy trials when a majority of the crop was within the growth stage range 1st application: 32-39 and 2nd application: 35-49 and respective product amounts were applied in water volumes of 200 – 300 l/ha.
Trial data from Poland is comparable to data from Maritime EPPO zone countries within the Central registration zone due to comparable agro - climatic conditions within the EPPO climatic zones and may therefore be presented as a suitable data package to show that the product Difenoconazole 500 SC achieves overall good efficacy against diseases on sugar beet.

TARGET	RATING	TIMING (DA – A)	N	INFESTATION IN THE UNTREATED CONTROL (%) MEAN MIN - MAX	% CONTROL Difenoconazole 500 SC 0,25 L/ha	% CONTROL DIFCOR 250 EC 0,5 L/ha
CERCBE	AUDPC	53 - 76	4	560,88 186,88 – 1398.38	51,4 28,1 – 95,2	56,9 28,5 – 95,3
	PESSEV	21	1	13,75	52,0	40,0
	PESSEV	38 – 42	4	14,46 4,75 – 33,75	59,3 35,7 – 98,1	59,5 32,0 – 97,2
	PESSEV	53 - 59	4	22,57 7,5 – 57,5	47,4 13,3 – 95,2	59,9 32,5 – 95,1
	PESSEV	76	1	21,8	93,3	94,8
ERYSBE	AUDPC	76	1	94,3	92,6	92,4
	PESSEV	76	1	5,0	83,3	83,3
UROMBE	AUDPC	53 -57	3	161,38 30,88 – 361,38	47,6 18,9 - 100	56,8
	PESSEV	20	1	8,75	37,5	60,0
	PESSEV	42	1	11,25	16,7	64,2
	PESSEV	55	1	10,5	14,6	39,6

Bridging trials for Difenoconazole 500 SC on oilseed rape
Trials were performed on oilseed rape were tested in 6 trials of which 1 was performed in Poland, which is part of the North-East EPPO Zone and 5 were performed in the Maritime EPPO Zone, the Czech Republic, Germany and the UK. A single application was made on the efficacy trials when a majority of the crop was within the growth stage range was within the growth stage range 61-69 (BBCH) respective product amounts were applied in water volumes of 200 – 225 l/ha.
Trial data from Poland is comparable to data from Maritime EPPO zone countries within the Central registration zone due to comparable agro - climatic conditions within the EPPO climatic zones and may

therefore be presented as a suitable data package to show that the product Difenoconazole 500 SC achieves overall good efficacy against diseases on oilseed rape.

TARGET	PART	RATING	TIMING (DA – A)	N	INFESTATION IN THE UNTREATED CONTROL (%) MEAN MIN - MAX	% CONTROL Difenoconazole 500 SC 0,25 L/ha	% CONTROL DIFCOR 250 EC 0,5 L/ha
SCLESC	STEM	PESSEV	21 - 43	2	29,9 6,0 – 53,8	74,7 56,0 – 93,2	73,6 61,0 – 86,2
		PESINC	21 -56	3	41,0 7,0 – 59,0	0,0 – 68,4	44,7 28,6 – 63,1
PYRBR	LEAF	PESSEV	28	1	4,75	21,2	52,5
		PESINC	28	1	21,25	31,1	47,2
ALTEBA	LEAF	PESSEV	28 - 29	2	10,0 7,8 – 12,2	56,2 41,2 – 71,2	71,7 68,4 -75,0
		PESINC	28 - 29	2	65,2 65,0 – 65,5	52,5 33,3 – 71,7	58,3 33,3 – 83,3
	POD	PESSEV	43 - 67	2	17,25 4,50 – 30,0	52,5 33,3 – 71,7	53,8 33,3 – 83,3
		PESINC	43	1	35,75	69,0	64,1

Bridging trials for Difenoconazole 500 SC on potato

Trials were performed on potato were tested in 12 trials of which 5 was performed in Poland, which is part of the North-East EPPO Zone and 5 were performed in the Maritime EPPO Zone, Belgium, the Czech Republic, Germany, the Netherlands, Sweden and the UK. A five to eight application was made on the efficacy trials when a majority of the crop was within the growth stage range 1st application: 41-71 to last application: 42-75 (BBCH) respective product amounts were applied in water volumes of 150 – 400 l/ha. Trial data from Poland is comparable to data from Maritime EPPO zone countries within the Central registration zone due to comparable agro-climatic conditions within the EPPO climatic zones and may therefore be presented as a suitable data package to show that the product Difenoconazole 500 SC achieves overall good efficacy against diseases on a potato.

TARGET	RATING	TIMING (DA – A)	N	INFESTATION IN THE UNTREATED CONTROL (%) MEAN MIN - MAX	% CONTROL Difenoconazole 500 SC 0,25 L/ha	% CONTROL DIFCOR 250 EC 0,5 L/ha
ALTESO	AUDPC	45 - 90	12	1008 166,0 – 2793,8	72,8 54,2 – 90,1	72,9 46,3 – 91,6
	PESSEV	7 – 14	6	11,1 5,0 – 35,0	62,4 20,0 – 98,0	70,0 27,1 - 100
	PESSEV	19 – 23	4	14,56 10,0 – 22,0	80,8 74,6 – 92,7	80,8 64,1 – 93,0
	PESSEV	28 – 29	4	21,7 12,5 – 36,2	76,8 51,4 – 95,8	77,5 56,6 – 95,8
	PESSEV	36 – 42	9	15,8 7,7 – 24,4	70,8 42,1- 96,4	72,7 49,6 – 91,9
	PESSEV	45 – 53	8	17,0 9,2 – 25,1	70,9 45,8 – 97,0	70,2 39,6 – 95,8
	PESSEV	56 – 64	8	19,0 5,8 – 28,7	78,0 43,3 – 97,1	74,2 42,0 – 98,3
	PESSEV	70 – 74	7	29,4 7,7 – 90,0	82,3 72,9 – 98,3	76,8 39,6 - 100
	PESSEV	79 – 85	6	37,2 8,1 – 97,2	69,7 38,3 – 85,0	71,2 36,7 – 87,0

The efficacy of Difenoconazole 500 SC is mostly comparable between requested uses, so the data should be evaluated as a complete package representing moderate to good control against a range of pathogens on tested crops. These results allow the basic Difcor 250 EC dossier to be used in the registration process for the new product Difenoconazole 500 SC as a complement to the new product test results. In some cases, both products have lower levels of control than expected e.g., oilseed rape trials. The differences

observed were mostly related to adverse weather conditions that were generally not conducive to the development of diseases with little or no rainfall throughout the critical infection period.

The individual cMS perhaps has specific guidance describing registration new product based on EPPO Guideline 1/307(2). Therefore, cMS based on extensive national experience should consider whether presented data there is an appropriate data package to support the registration of Difenoconazole 500 SC based on a 'bridging' approach.

However, at the peer review DE, CZ, and NL argued that the dossier is insufficient to support the effectiveness of CURRANDO for winter and spring oilseed rape and sugar beet (except for claimed use against CERCBE in DE and UROMBE in NL). Therefore, if the applicant is wishing to register this product in these Member States, they should discuss requirements and/or submit additional efficacy trials to the extent compatible with the guideline EPPO PP 1/226 in a National Addendum.

NORTH EAST EPPO Zone

Bridging trials for Difenoconazole 500 SC on sugar beet

Trials were performed on sugar beet were tested in 4 trials of which 2 was performed in Poland, which is part of the North-East EPPO Zone and 2 were performed in the Maritime EPPO Zone, the Czech Republic and Germany. A double application was made on the efficacy trials when a majority of the crop was within the growth stage range 1st application: 32-39 and 2nd application: 35-49 and respective product amounts were applied in water volumes of 200 – 300 l/ha. Trial data from Czech Republic, Germany is comparable to data from North-East EPPO Zone countries within the Central registration zone due to comparable agro - climatic conditions within the EPPO climatic zones and may therefore be presented as a suitable data package to show that the product Difenoconazole 500 SC achieves overall good efficacy against diseases on sugar beet.

TARGET	RATING	TIMING (DA – A)	N	INFESTATION IN THE UNTREATED CONTROL (%) MEAN MIN - MAX	% CONTROL Difenoconazole 500 SC 0,25 L/ha	% CONTROL DIFCOR 250 EC 0,5 L/ha
CERCBE	AUDPC	53 - 76	2	321 186,9 – 455,1	72,5 49,8 – 95,1	75,9 56,5 – 95,31
		54 - 62	2	805,5 597,9 – 1013,1	70,0 61,1 – 78,9	55,5 47,7 – 65,2
	PESSEV	21 -27	2	11,6 8,2 -15,0	69,7 56,8 – 82,5	49,2 39,1 – 59,4
	PESSEV	38 - 40	2	5,17 4,7 – 5,6	71,6 45,0 – 98,1	78,0 58,7 – 97,2
	PESSEV	37 - 42	2	17,7 10,5 – 25,0	66,9 52,1 – 81,7	53,6 44,6 – 62,6
	PESSEV	53 - 57	2	7,64 7,5 – 7,7	95,2 95,2 – 95,2	95,2 95,2 – 95,2
	PESSEV	54 - 62	2	30,0 23,7 – 36,2	71,3 66,4 – 76,2	63,6 55,9 – 71,2
	PESSEV	76	1	21,8	93,3	94,8
ERYSBE	AUDPC	76	1	94,3	92,6	92,3
		54	1	333,6	87,0	82,9
	PESSEV	21	1	6,2	80,0	75,0
		37	1	10,7	87,5	82,5
		54	1	12,5	88,3	87,5
		76	1	5,0	83,2	83,2
RAMUBE	AUDPC	62	1	151,2	69,6	74,5
		42 - 62	2	4,7 4,0 – 5,5	68,0 62,9 – 73,3	74,8 73,3 – 76,4

UROMBE	AUDPC	53	1	30,892,6	100	100

Bridging trials for Difenoconazole 500 SC on oilseed rape

Trials were performed on oilseed rape were tested in 3 trials of which 1 was performed in Poland, which is part of the North-East EPPO Zone and 2 were performed in the Maritime EPPO Zone, the Czech Republic and Germany. A single application was made on the efficacy trials when a majority of the crop was within the growth stage range was within the growth stage range 61-69 (BBCH) respective product amounts were applied in water volumes of 200 – 225 l/ha.

Trial data from Czech Republic, Germany is comparable to data from North-East EPPO Zone countries within the Central registration zone due to comparable agro-climatic conditions within the EPPO climatic zones and may therefore be presented as a suitable data package to show that the product Difenoconazole 500 SC achieves overall good efficacy against diseases on oilseed rape.

TARGET	PART	RATING	TIMING (DA – A)	N	INFESTATION IN THE UNTREATED CONTROL (%) MEAN MIN - MAX	% CONTROL Difenoconazole 500 SC 0,25 L/ha	% CONTROL DIFCOR 250 EC 0,5 L/ha
ALTEBA	LEAF	PESSEV	28	1	12,2	71,2	75,0
		PESINC	28	1	65,5	43,7	48,2
	POD	PESSEV	43 - 67	2	17,2	52,5 33,3 – 71,7	58,3 33,3 – 83,3
		PESINC	43	1	35,7	69,0	64,1
SCLESC	STEM	PESSEV	21 - 43	2	29,9	74,6 56,0 – 93,2	73,6 60,9 – 86,1
		PESINC	21 - 43	2	58,0	54,5 40,6 – 68,4	52,7 42,3 – 63,1

Bridging trials for Difenoconazole 500 SC on potato

Trials were performed on potato were tested in 7 trials of which 5 was performed in Poland, which is part of the North-East EPPO Zone and 2 were performed in the Maritime EPPO Zone, the Czech Republic and Germany. A five to eight application was made on the efficacy trials when a majority of the crop was within the growth stage range 1st application: 41-71 to last application: 42-75 (BBCH) respective product amounts were applied in water volumes of 150 – 400 l/ha. Trial data from Czech Republic, Germany is comparable to data from North-East EPPO Zone countries within the Central registration zone due to comparable agro-climatic conditions within the EPPO climatic zones and may therefore be presented as a suitable data package to show that the product Difenoconazole 500 SC achieves overall good efficacy against diseases on potato.

TARGET	RATING	TIMING (DA – A)	N	INFESTATION IN THE UNTREATED CONTROL (%) MEAN MIN - MAX	% CONTROL Difenoconazole 500 SC 0,25 L/ha	% CONTROL DIFCOR 250 EC* 0,5 L/ha
ALTESO	AUDPC	45 - 90	12	1008,8 166,0 – 2793,8	72,8 54,2 – 90,1	72,9 46,3 – 91,6
	PESSEV	7 - 14	6	11,1 5,0 – 35,0	62,4 20,0 – 98,0	69,9 27,1 - 100
	PESSEV	19 - 23	4	14,56 10,0 – 22,0	80,8 74,6 – 92,7	80,8 64,1 – 93,0
	PESSEV	28 – 29	4	21,7 12,5 – 36,2	76,8 51,4 – 95,8	77,7 56,6 – 95,8
	PESSEV	36 – 42	9	15,8 7,7 – 24,4	70,8 42,1 – 96,4	72,7 49,6 – 91,9
	PESSEV	45 – 53	8	17,0 9,2 – 25,1	70,9 45,8 – 96,9	70,1 39,6 – 95,8
	PESSEV	56 – 64	8	19,0 5,8 – 28,7	78,0 43,3 – 97,0	74,1 42,0 – 98,3
	PESSEV	70 – 74	7	29,4 7,7 – 90,0	82,3 72,9 – 98,3	76,8 39,5 - 100

	PESSEV	79 – 85	6	37,2 8,13 – 97,2	69,7 38,3 – 85,0	72,0 36,7 – 87,0

*P**roduct is registered under the brand name NARITA 250 EC.**

Comparative (side by side) trials was used to demonstrate that the new product Difenoconazole 500 SC efficacy is equivalent to the original, already registered product. Comparability of both products regarding the active substance, mode of action and dose rate can be considered as a suitable package with a reduced number of trials for each crop for the claim of use of Difenoconazole 500 SC. According to the presented results, it can be concluded that the results of the tested product Difenoconazole 500 SC are comparable with the results of products Difcor 250 EC/Narita 250 EC tested at the same amount of active substance per hectare. It is acceptable that trials available for Difcor 250 EC or Narita 250 EC can be used as bridging trials to cover the requested uses as follow:

Crop	Application rate L/ha	Pests	Timing / Growth stage of crop & season	Max. number per use
Potatoes	0,25 L/ha	*Alternaria* sp. (ALTESP)	BBCH 65-99	1-4
Sugar beet	0,25 L/ha	*Cercospora beticola* (CERCBE)	After BBCH 39 till 49	1-2
Winter oilseed rape	0,25 L/ha	*Alternaria brassicae* (ALTEBA), *Sclerotinia sclerotiorum* (SCLESC)	BBCH 60-65	1

Registration in Poland of DIFCOR 250 EC/Narita 250 EC does not cover application against *Ramularia beticola*, *Erysiphe betae* on sugar beet and *Phoma lingam*, *Erysiphe cruciferarum* and *Pyrenopeziza brassicae* on oilseed rape as well as requested use on spring oilseed rape crop. For the above-requested uses, the number of trials included by the applicant is insufficient for their registration in the context of guideline EPPO PP 1/226(2).

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

3.3.1 Mode of action

GOB1911 is based on the active substance difenoconazole, a member of the DMI fungicides.
The mode of action of DMI fungicides is to inhibit the demethylation at the C14 position of the fungal sterol biosynthesis (DeMethylation Inhibition = DMI).
DMI fungicides are part of the SBIs (Sterol Biosynthesis Inhibitors). Difenoconazole belongs to the biggest group within the DMI fungicides, the triazoles.

3.3.2 Resistance mechanism

Resistance to SBI fungicides has been well characterized during the last 20 years. Issues with SBI performance typically became obvious only after numerous years of intensive use with efficacy degrading stepwise. Following reduced selection pressure, a partial recovery in sensitivity is often observed. The primary mechanism of resistance is the accumulation of several independent mutations in the target site. Each individual mutation typically causes only a small reduction in sensitivity and it is not until multiple mutations accumulate in an isolate that a large enough reduction in sensitivity is observed to impact efficacy under field conditions. Resistance to DMIs or Amines is mostly characterized by a slow, step-wise erosion of efficacy over several years of intensive use rather than by a rapid loss of control. The resistance risk of DMI fungicides is still classified as “medium” (FRAC Website).

3.3.3 Evidence of resistance and inherent risk of target species

As mentioned in the "List of confirmed cases of plant pathogenic organisms resistant to disease control agents" published by FRAC (revised version, May 2020), there are no confirmed cases of resistance to DMI fungicides on potatoes.
However, resistance to DMI fungicides was confirmed for *Cercospora beticola* on sugar beets and *Pyrenopeziza brassicae* on oilseed rape.
Both pathogens mentioned above are target pathogens and show a medium risk of development of resistance according to the FRAC Pathogen risk list (September 2019)

For the other target pathogens the risk according to the Pathogen risk list is given below.
Medium risk: *Alternaria solani, Alternaria brassicae, Erysiphe cruciferarum*
Low risk: *Uromyces beticola, Sclerotinia sclerotiorum*
Not on list*: Ramularia beticola; Erysiphe beticola; Plenodomus (Phoma) lingam*

In the Pathogen risk list the following it is mentioned that all pathogens apart from those categorized in the "high risk" group pose a much lower risk, because resistance is not a major problem or has been slow to develop. Cases of specific isolates being classed as resistant may be known in some instances, but in commercial practice resistance has not created major disease problems.

3.3.4 Cross resistance

DMI fungicides are cross-resistant to each other. There is no cross-resistance between the DMI's, Amines and Hydroxyanilides, while all 3 groups belong to the SBI fungicides.

3.3.5 Sensitivity data

No studies on baseline sensitivity data of difenoconazole are available to the applicant.

3.3.6 Use pattern

The use pattern is detailed in the GAP table.

3.3.7 Resistance risk assessment of the unrestricted use pattern

As point mutations are responsible for the development of resistance, sensitivity to difenoconazole could decrease fast in the absence of resistance management.

3.3.8 Acceptability of the resistance risk

In an unrestricted use pattern, the resistance risk for difenoconazole is unacceptable. However, if the resistance management strategy is respected, resistance can be kept under control as seen in the yearly reports of the FRAC SBI working group.

3.3.9 Management strategy

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

The summaries and recommendations included in this section are based upon data generated by members of the FRAC-SBI Working Group and upon the work of non-industry collaborators. FRAC has made the following general recommendations regarding use of SBI fungicides:

- Do not use repeated applications of SBIs alone on the same crop in one season against a high-risk pathogen in areas of high disease pressure for that pathogen.
- For crop/pathogen situations requiring multiple spray applications, e.g. orchard crops/powdery mildews, use mixtures or alternate (in block sprays or in sequence) with effective non-cross-resistant fungicides.
- If mixture or alternation is not possible, reserve SBI use for the critical part of the season or critical crop growth stage.
- If DMI or amine performance declines and less sensitive forms of the pathogen are detected, SBIs should only be used in mixture or alternation with effective non-cross-resistant fungicides.
- Complementary use of other fungicide classes with different modes of action should be maximised.
- Use as recommended on the label. Do not use reduced doses.
- Use other measures such as resistant varieties, good agronomic practice, plant hygiene.

As can be seen, the resistance management for difenoconazole is not only limited to this active substance but also to whole group of DMIs. More specifically, the following recommendations are made:

- Repeated application of DMI or amine fungicides alone should not be used on the same crop in one season against risky pathogens (e.g. cereal powdery mildews, barley net blotch, scald) in areas of high disease pressure for that particular pathogen.
- Reduced rates of DMI's have been shown to accelerate the shift to less sensitive populations. It is critical to use effective rates of DMI's in order to ensure robust disease control. DMI's must provide effective disease control and be used at manufacturers recommended rates.
- When used in mixture recommended effective rates of the SBI should be maintained.
- Split and reduced rate programmes, using multiple repeated applications at dose rates below manufacturers recommendations, provide continuous selection pressure and accelerate the development of resistant populations, and therefore must not be used.
- To ensure good performance in situations of high disease pressure it is of importance to adhere to dosages and spray timings as recommended by manufacturers. Highly curative applications should be avoided. Application timing has to be appropriate to all mix partner's characteristics. Mixing with a non-cross resistant fungicide at effective dose rates may contribute to a higher level disease control. The amine fungicides are effective non-cross-resistant partner fungicides for DMI's on cereals for the control of pathogens included in the label recommendation of each respective product.

Comments of zRMS:	The applicant has provided a resistance risk analysis according to guideline EPPO. Overall, the risk of resistance can be estimated as low to medium for the difenoconazole. The management strategy presented by the applicant should be implemented in cMS based on the latest FRAC recommendations and consideration in that cMS conditions.

3.4 Adverse effects on treated crops (KCP 6.4)

3.4.1 Phytotoxicity to host crop (KCP 6.4.1)

Plant protection products containing difenoconazole have been applied on a wide variety of crops in different countries without any reports of damage symptoms to crops. Consequently, reference is made to the efficacy section (KCP 6.2). The phytotoxicity of Difcor 250 EC and Difenoconazole 500 SC was assessed in these trials according to EPPO Guideline PP 1/135(4). This guideline states that for fungicides it is considered enough to demonstrate the crop safety at the N dose rate when no phytotoxicity is expected. No significant adverse effects were recorded at the proposed dose rates in sugar beet, oilseed rape or potato.

3.4.1.1 Efficacy trials for Difcor 250 EC SC on sugar beet

The table below summarizes the phytotoxicity effects in all of the trials. However, no phytotoxicity was observed at any timepoint in any trial.

Table 3.4-1 Phytotoxicity of Difcor 250 EC on sugar beet

Number of trials with…		Efficacy trials (6)	
		Difcor 250 EC	Score
		N	N
Highest phytotox.	0- 5%	6	6
	>5 - 10%		
	>10 - 15%		
	>15 %		
Phytotox. at final assessment	0 - 5%	6	6
	>5 - 10%		
	>10 - 15%		
	>15 %		

Conclusion
Together, all selectivity data gathered in the efficacy trials confirm that Difcor 250 EC is safe for use on sugar beet.

3.4.1.2 Efficacy trials for Difcor 250 EC SC on oilseed rape

The table below summarizes the phytotoxicity effects in all of the trials. However, no phytotoxicity was observed at any timepoint in any trial. Because this is the case all trials performed in the Maritime EPPO Zone (11) and all trials applicable for Poland (2 Slovakian and 11 Polish trials) were summarized together.

3.4-2 Phytotoxicity of Difcor 250 EC on oilseed rape

Number of trials with…		Efficacy trials (24)			
		Difcor 250 EC			Reference(s)
		N	1.4N	2N	N
Highest phytotox.	0- 5%	24	18*	15**	24
	>5 - 10%				
	>10 - 15%				
	>15 %				
Phytotox. at final assessment	0 - 5%	24	18*	15**	24
	>5 - 10%				
	>10 - 15%				
	>15 %				

*7 Polish, 11 Maritime trials
**4 Polish trials; 11 Maritime trials

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difcor 250 EC is safe for use on oilseed rape.

3.4.1.3 Bridging trials for Difenoconazole 500 SC on sugar beet

Maritime EPPO Zone

The table below summarizes the phytotoxicity effects in all of the trials. However, no phytotoxicity was observed at any timepoint in any trial.

Table 3.4-3 Phytotoxicity of Difenoconazole 500 SC on sugar beet in the Maritime EPPO Zone

Number of trials with…		Efficacy trials (4)	
		Difeno. 500 SC	Reference(s)
		N	N
Highest phytotox.	0- 5%	4	4
	>5 - 10%		
	>10 - 15%		
	>15 %		
Phytotox. at final assessment	0 - 5%	4	4
	>5 - 10%		
	>10 - 15%		
	>15 %		

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC is safe for use on sugar beet.

Trials applicable for Poland

The table below summarizes the phytotoxicity effects in all of the trials. However, no phytotoxicity was observed at any timepoint in any trial.

Table 3.4-4 Phytotoxicity of Difenoconazole 500 SC on sugar beet trials for Poland

Number of trials with…		Efficacy trials (4)	
		Difeno. 500 SC	Reference(s)
		N	N
Highest phytotox.	0- 5%	4*	4
	>5 - 10%		
	>10 - 15%		
	>15 %		
Phytotox. at final assessment	0 - 5%	4*	4*
	>5 - 10%		
	>10 - 15%		
	>15 %		

*2 trials performed in Poland, 1 in the Czech Republic and 1 in Germany.

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC is safe for use on oilseed rape.

3.4.1.4 Bridging trials for Difenoconazole 500 SC SC on oilseed rape

Maritime EPPO Zone

The table below summarizes the phytotoxicity effects in all of the trials. However, no phytotoxicity was observed at any timepoint in any trial.

Table 3.4-5 Phytotoxicity of Difenoconazole 500 SC on oilseed rape in the Maritime EPPO Zone

Number of trials with…		Efficacy trials (5)	
		Difeno. 500 SC	Reference(s)
		N	N
Highest phytotox.	0- 5%	5	5
	>5 - 10%		
	>10 - 15%		
	>15 %		
Phytotox. at final assessment	0 - 5%	5	5
	>5 - 10%		
	>10 - 15%		
	>15 %		

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC is safe for use on oilseed rape.

Trials applicable for Poland

The table below summarizes the phytotoxicity effects in all of the trials. However, no phytotoxicity was observed at any timepoint in any trial.

Table 3.4-6 Phytotoxicity of Difenoconazole 500 SC on oilseed rape trials for Poland

Number of trials with…		Efficacy trials (3)	
		Difeno. 500 SC	Reference(s)
		N	N
Highest phytotox.	0- 5%	3*	3*
	>5 - 10%		
	>10 - 15%		
	>15 %		
Phytotox. at final assessment	0 - 5%	3*	3*
	>5 - 10%		
	>10 - 15%		
	>15 %		

*1 trial performed in Poland, 1 in the Czech Republic and 1 in Germany.

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC is safe for use on oilseed rape.

3.4.1.5 Bridging trials for Difenoconazole 500 SC on potato

Maritime EPPO Zone

Table 3.4-7 Phytotoxicity of Difenoconazole 500 SC on potato in the Maritime EPPO Zone

Number of trials with…		Efficacy trials (7)	
		Difeno. 500 SC	Reference(s)
		N	N
Highest phytotox.	0- 5%	7	7
	>5 - 10%		
	>10 - 15%		
	>15 %		
Phytotox. at final assessment	0 - 5%	7	7
	>5 - 10%		
	>10 - 15%		
	>15 %		

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC is safe for use on potato.

North-East EPPO Zone

Table 3.4-8 Phytotoxicity of Difenoconazole 500 SC on potato trial for Poland

Number of trials with…		Efficacy trials (7)	
		Temsa SC	Reference(s)
		N	N
Highest phytotox.	0- 5%	7*	7*
	>5 - 10%		
	>10 - 15%		
	>15 %		
Phytotox. at final assessment	0 - 5%	7*	7*
	>5 - 10%		
	>10 - 15%		
	>15 %		

***5 trials performed in Poland, 1 in the Czech Republic and 1 in Germany.**

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC is safe for use on potato.

Comments of zRMS:	Based on the known crop safety of application of difenoconazole on crops and no effects on crop vigour and phytotoxicity across selectivity assessment gathered in the efficacy trials it is reasonable to conclude that Difenoconazole 500 SC has no adverse effects to host crop when applied at the proposed label rates and according to label recommendations.

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

3.4.2.1 Yield in efficacy trials for Difcor 250 EC on sugar beet

The yield amounts of the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below.

Table 3.4-9 Yield as %UNCK

			6.2-11	6.2-12	6.2-14	6.2-16	Summary					
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			YIELD									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (t/ha)			79.80	108.50	100.40	48.52	4	84.31	48.52	108.50	90.10	26.74
Difcor 250 EC	0.15	L/ha	118.67	103.96	98.80	113.42	4	108.71	98.80	118.67	108.69	8.98
Difcor 250 EC	0.25	L/ha			98.01	112.08	2	105.04	98.01	112.08	105.04	9.95
Difcor 250 EC	0.5	L/ha	142.36	100.55	97.51	117.99	4	114.60	97.51	142.36	109.27	20.59
Score	0.5	L/ha			102.59	114.41	2	108.50	102.59	114.41	108.50	8.36

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield amount of sugar beet.

3.4.2.2 Yield in efficacy trials for Difcor 250 EC on oilseed rape

Below are the summarized results on the efficacy trials against SCLESC and ALTEBA and the trials performed at LEPTMA. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.4-10 Yield as %UNCK in trials performed against SCLESC and ALTEBA

			6.2-30b	6.2-30c	6.2-30d	6.2-30e	6.2-30f	Summary				
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW	BRSNW					
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK					
Part Rated			YIELD									
Name	Rate	Unit						n	Mean	Min	Max	Median	Stdev
UNTREATED (t/ha)			3.27	3.70	3.95	3.70	3.76	5	3.68	3.27	3.95	3.70	0.25
Difcor 250 EC	0.3	L/ha	95.30	99.50	86.20	102.00	98.80	5	96.36	86.20	102.00	98.80	6.16
Difcor 250 EC	0.5	L/ha	98.10	97.50	95.80	87.00	100.80	5	95.84	87.00	100.80	97.50	5.26
Difcor 250 EC	0.7	L/ha	99.80	99.60	77.30	105.10	99.80	5	96.32	77.30	105.10	99.80	10.88
Difcor 250 EC	1	L/ha	104.30	96.80	78.90	102.30	98.00	5	96.06	78.90	104.30	98.00	10.07
Horizon 250	1.25	L/ha					102.10	1	102.10	102.10	102.10	102.10	
Sunorg Pro	0.8	L/ha	104.20	101.50	87.70	106.90		4	100.08	87.70	106.90	102.85	8.54

Table 3.4-11 Yield as %UNCK in trials performed against LEPTMA

			6.2-35	6.2-37	6.2-39a	6.2-39b	Summary					
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			YIELD									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (t/ha)			5.33	4.03	4.10	5.56	4	4.75	4.03	5.56	4.71	0.80
Difcor 250 EC	0.3	L/ha	99.14	103.62	99.20	99.90	4	100.47	99.14	103.62	99.55	2.13
Difcor 250 EC	0.5	L/ha	100.69	108.59	94.60	97.50	4	100.35	94.60	108.59	99.10	6.03
Difcor 250 EC	0.7	L/ha	98.14	108.32	100.20	98.20	4	101.21	98.14	108.32	99.20	4.83
Difcor 250 EC	1	L/ha	102.63	101.04	101.00	104.00	4	102.17	101.00	104.00	101.83	1.44
Horizon	1.5	L/ha	91.74				1	91.74	91.74	91.74	91.74	
Score	0.5	L/ha	101.54				1	101.54	101.54	101.54	101.54	
Sunorg Pro	0.5	L/ha		98.31			1	98.31	98.31	98.31	98.31	
Caramba	1.2	L/ha			102.30		1	102.30	102.30	102.30	102.30	
Caramba	1.5	L/ha				104.20	1	104.20	104.20	104.20	104.20	

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difcor 250 EC will not negatively affect the yield amount of oilseed rape.

Trials applicable for Poland

Table 3.4-12 Yield as %UNCK in trials performed against SCLESC and ALTEBA

			6.2-21	6.2-22	6.2-23	6.2-24	6.2-25	6.2-26	6.2-27	6.2-28	6.2-29	Summary					
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW	BRSNW						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			YIELD														
Name	Rate	Unit										n	Mean	Min	Max	Median	Stdev
UNTREATED (t/ha)			1.79	1.88	3.48	3.91	4.08	3.63	3.21	3.43	3.44	9	3.21	1.79	4.08	3.44	0.82
Difcor 250 EC	0.3	L/ha	135.32	133.82	108.59	108.79	103.48	107.46				6	116.24	103.48	135.32	108.69	14.33
Difcor 250 EC	0.5	L/ha	148.81	151.40	112.09	108.43	104.19	110.38	109.73	116.61	108.62	9	118.92	104.19	151.40	110.38	18.00
Difcor 250 EC	0.7	L/ha			112.38	111.62	105.88	111.01	114.38	123.72	109.47	7	112.64	105.88	123.72	111.62	5.56
Difcor 250 EC	1	L/ha			111.29	113.13	107.30	109.31				4	110.26	107.30	113.13	110.30	2.52
Horizon 250	1	L/ha	141.40	156.46								2	148.93	141.40	156.46	148.93	10.65
Horizon 250	1.25	L/ha			113.44	110.60	105.39	111.70	111.39	129.22	108.33	7	112.87	105.39	129.22	111.39	7.67
Toprex 375	0.5	L/ha							110.86	127.48	106.45	3	114.93	106.45	127.48	110.86	11.09

Table 3.4-13 Yield as %UNCK in trials performed against LEPTMA

			6.2-31	6.2-32	6.2-33	6.2-34	Summary					
Crop Code			BRSNW	BRSNW	BRSNW	BRSNW						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			YIELD									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (t/ha)			1.92	2.63	3.01	2.60	4	2.54	1.92	3.01	2.62	0.45
Difcor 250 EC	0.3	L/ha	123.96	123.19	128.24	79.89	4	113.82	79.89	128.24	123.58	22.73
Difcor 250 EC	0.5	L/ha	127.60	128.14	130.90	79.89	4	116.63	79.89	130.90	127.87	24.54
Horizon 250	1	L/ha	144.79	115.97	124.25	82.61	4	116.91	82.61	144.79	120.11	25.88
Horizon 250	0.75	L/ha	144.27	88.97	134.88	86.41	4	113.64	86.41	144.27	111.93	30.22
Toprex 375	0.5	L/ha	141.67	73.38	138.54	80.16	4	108.44	73.38	141.67	109.35	36.69

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difcor 250 EC will not negatively affect the yield amount of oilseed rape.

3.4.2.3 Bridging trials for Difenoconazole 500 SC on sugar beet

The yield amounts of the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.4-14 Yield as %UNCK

			6.2-47		6.2-48		6.2-49		Summary					
Rating Type			YIELD		YIELD		YIELD							
Rating Unit			%UNCK		%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (t/ha)			60.45	b	71.46	a	88.38	a	73.43	3	60.45	88.38	71.46	14.0688
Difenoconazole 500 SC	0.15	L/ha	103.788	ab	102.3	a	104.06	a	103.383	3	102.3	104.06	103.788	0.94748
Difenoconazole 500 SC	0.25	L/ha	108.718	a	97.49	a	102.1	a	102.769	3	97.49	108.718	102.1	5.64382
Difcor 250 EC	0.5	L/ha	109.231	a	105.33	a	103.06	a	105.874	3	103.06	109.231	105.33	3.12109
ILA 250 EC	0.4	L/ha	105.525	ab					105.525	1	105.525	105.525	105.525	
Score	0.4	L/ha			100.26	a			100.26	1	100.26	100.26	100.26	
Difure Pro	0.6	L/ha					99.68	a	99.68	1	99.68	99.68	99.68	

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield amount of sugar beet.

North-East EPPO Zone

Table 3.4-15 Yield as %UNCK

			6.2-47	
Rating Type			YIELD	
Rating Unit			%UNCK	
Name	Rate	Unit		
UNTREATED (t/ha)			60.45	b
Difenoconazole 500 SC	0.15	L/ha	103.788	ab
Difenoconazole 500 SC	0.25	L/ha	108.718	a
Difcor 250 EC	0.5	L/ha	109.231	a
ILA 250 EC	0.4	L/ha	105.525	ab

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield amount of sugar beet.

3.4.2.4 Bridging trials for Difenoconazole 500 SC on oilseed rape

The yield amounts of the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.4-16 Yield as %UNCK

			6.2-40		6.2-41		6.2-44		Summary					
Rating Type			YIELD		YIELD		YIELD							
Rating Unit			%UNCK		%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (t/ha)			2.29	a	3.66	a	4.48	a	3.48	3	2.29	4.48	3.66	1.11
Difenoconazole 500 SC	0.15	L/ha	101.60	a	107.24	a	102.68	a	103.84	3	101.60	107.24	102.68	2.99
Difenoconazole 500 SC	0.25	L/ha	104.61	a	107.09	a	106.37	a	106.02	3	104.61	107.09	106.37	1.28
Difcor 250 EC	0.5	L/ha	109.25	a	107.30	a	101.01	a	105.85	3	101.01	109.25	107.30	4.31
Sirena	1.5	L/ha			107.91	a			107.91	1	107.91	107.91	107.91	

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield amount of oilseed rape.

North-East EPPO Zone

Table 3.4-17 Yield as %UNCK

			6.2-40		6.2-41		6.2-46		Summary					
Rating Type			YIELD		YIELD		YIELD							
Rating Unit			%UNCK		%UNCK		%UNCK							
Trt-Eval Interval			70 DA-A		65 DA-A		69 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (t/ha)			2.29	a	3.66	a	2.90	c	2.95	3	2.29	3.66	2.90	0.69
Difenoconazole 500 SC	0.15	L/ha	101.60	a	107.24	a	105.78	b	104.87	3	101.60	107.24	105.78	2.93
Difenoconazole 500 SC	0.25	L/ha	104.61	a	107.09	a	108.28	ab	106.66	3	104.61	108.28	107.09	1.87
Difcor 250 EC	0.5	L/ha	109.25	a	107.30	a	114.02	a	110.19	3	107.30	114.02	109.25	3.46
Sirena	1.5	L/ha			107.91	a			107.91	1	107.91	107.91	107.91	

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield amount of oilseed rape.

3.4.2.5 Bridging trials for Difenoconazole 500 SC on potato

The yield amounts of the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest

Maritime EPPO Zone

Table 3.4-18 Yield as %UNCK

			6.2-53		6.2-54		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59		Summary					
Part Rated			YIELD		YIELD		YIELD		YIELD		YIELD		YIELD		YIELD							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (t/ha)			35.38	a	29.38	a	31.55	a	40.37	a	74.31	a	35.94	a	29.64	b	39.51	7	29.38	74.31	35.38	15.84
Difenoconazole 500 SC	0.15	L/ha	118.70	a	100.80	a	99.68	a	125.77	a	98.07	a	103.28	a	112.00	ab	108.33	7	98.07	125.77	103.28	10.70
Difenoconazole 500 SC	0.22	L/ha			92.56	a			110.14	a							101.35	2	92.56	110.14	101.35	12.43
Difenoconazole 500 SC	0.25	L/ha	112.66	a			94.44	a			101.38	a	100.69	a	122.30	a	106.29	5	94.44	122.30	101.38	11.10
Difcor 250 EC	0.4	L/ha													122.61	a	122.61	1	122.61	122.61	122.61	
Difcor 250 EC	0.5	L/ha	111.89	a	97.74	a	101.18	a	112.57	a	98.87	a	104.33	a	128.66	a	107.89	7	97.74	128.66	104.33	10.89

Table 3.4-19 Yield as %UNCK

			6.2-53		6.2-54		6.2-60		6.2-61		6.2-62		6.2-63		6.2-64		Summary					
Part Rated			YIELD		YIELD		YIELD		YIELD		YIELD		YIELD		YIELD							
Rating Type			YIELD		YIELD		YIELD		YIELD		YIELD		YIELD		YIELD							
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (t/ha)			35.38	a	29.38	a	32.42	c	35.43	a	49.73	c	45.64	c	27.65	b	36.52	7	27.65	49.73	35.38	8.23
Difenoconazole 500 SC	0.15	L/ha	118.70	a	100.80	a	112.42	ab	105.82	a	121.19	ab	113.99	ab	129.36	a	114.61	7	100.80	129.36	113.99	9.58
Difenoconazole 500 SC	0.22	L/ha			92.56	a											92.56	1	92.56	92.56	92.56	
Difenoconazole 500 SC	0.25	L/ha	112.66	a			115.16	a	108.06	a	126.83	a	136.21	a	129.46	a	121.40	6	108.06	136.21	121.00	11.02
Difcor 250 EC	0.5	L/ha	111.89	a	97.74	a	110.28	ab	104.58	a	120.13	ab	117.34	ab	126.77	a	112.68	7	97.74	126.77	111.89	9.75

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield amount of potato.

Comments of zRMS:	Overall, Difenoconazole 500 SC applied at a proposed dose rate of 0,25 L/ha had no negative effects on crop yield when applied in oilseed rape, potato and sugar beet and could actually increase total mean yield slightly compared to untreated control.

3.4.2.6 Efficacy trials for Difcor 250 EC on sugar beet

The absolute results for each yield quality parameter is given for the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below.

Table 3.4-20 Yield quality as %UNCK

			6.2-11	6.2-12	6.2-14	6.2-16	Summary					
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			SUGAR CONTENT									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			18.20	19.00	21.40	17.73	4	19.08	17.73	21.40	18.60	1.63
Difcor 250 EC	0.15	L/ha	98.90	100.53	92.52	97.24	4	97.30	92.52	100.53	98.07	3.45
Difcor 250 EC	0.25	L/ha			101.40	98.76	2	100.08	98.76	101.40	100.08	1.87
Difcor 250 EC	0.5	L/ha	96.15	95.26	89.25	97.29	4	94.49	89.25	97.29	95.71	3.59
Score	0.5	L/ha			111.68	95.83	2	103.75	95.83	111.68	103.75	11.21
Part Rated			SUGAR YIELD									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (t/ha)			17.60	20.60	14.44	24.01	4	19.16	14.44	24.01	19.10	4.10
Difcor 250 EC	0.15	L/ha	96.59	104.37	116.41	112.62	4	107.50	96.59	116.41	108.49	8.84
Difcor 250 EC	0.25	L/ha			122.16	116.99	2	119.58	116.99	122.16	119.58	3.65
Difcor 250 EC	0.5	L/ha	113.07	95.63	128.05	121.45	4	114.55	95.63	128.05	117.26	14.02
Score	0.5	L/ha			134.07	125.99	2	130.03	125.99	134.07	130.03	5.72
Part Rated			POTASSIUM IMPURITIES									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (mmol)			2.14	2.95		3.39	3	2.83	2.14	3.39	2.95	0.63
Difcor 250 EC	0.15	L/ha	112.62	102.71		104.72	3	106.68	102.71	112.62	104.72	5.24
Difcor 250 EC	0.25	L/ha				96.17	1	96.17	96.17	96.17	96.17	
Difcor 250 EC	0.5	L/ha	109.81	100.68		97.94	3	102.81	97.94	109.81	100.68	6.22
Score	0.5	L/ha				102.95	1	102.95	102.95	102.95	102.95	
Part Rated			NITROGEN IMPURITIES									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (mmol)			0.57	1.04		0.51	3	0.71	0.51	1.04	0.57	0.29
Difcor 250 EC	0.15	L/ha	94.74	74.04		84.31	3	84.36	74.04	94.74	84.31	10.35
Difcor 250 EC	0.25	L/ha				92.16	1	92.16	92.16	92.16	92.16	
Difcor 250 EC	0.5	L/ha	77.19	67.31		119.61	3	88.04	67.31	119.61	77.19	27.79
Score	0.5	L/ha				111.76	1	111.76	111.76	111.76	111.76	
Part Rated			SODIUM IMPURITIES									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (mmol)			0.13	0.17		0.38	3	0.23	0.13	0.38	0.17	0.13
Difcor 250 EC	0.15	L/ha	123.08	117.65		107.89	3	116.21	107.89	123.08	117.65	7.69
Difcor 250 EC	0.25	L/ha				107.89	1	107.89	107.89	107.89	107.89	
Difcor 250 EC	0.5	L/ha	100.00	100.00		144.74	3	114.91	100.00	144.74	100.00	25.83
Score	0.5	L/ha				173.68	1	173.68	173.68	173.68	173.68	
Part Rated			GLUCOSE IMPURITIES									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (mmol)			0.13	0.17		0.04	3	0.11	0.04	0.17	0.13	0.07
Difcor 250 EC	0.15	L/ha	123.08	117.65		100.00	3	113.57	100.00	123.08	117.65	12.07
Difcor 250 EC	0.25	L/ha				100.00	1	100.00	100.00	100.00	100.00	
Difcor 250 EC	0.5	L/ha	100.00	100.00		75.00	3	91.67	75.00	100.00	100.00	14.43
Score	0.5	L/ha				100.00	1	100.00	100.00	100.00	100.00	

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difcor 250 EC will not negatively affect the yield quality of sugar beet.

3.4.2.7 Efficacy trials for Difcor 250 EC on oilseed rape

The absolute results for each yield quality parameter is given for the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.4-21 Yield quality as %UNCK in LEPTMA trials

			6.2-35	6.2-37	6.2-39a	6.2-39b						
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA	Summary					
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			MOICON									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			8.88	5.70			2	7.29	5.70	8.88	7.29	2.25
Difcor 250 EC	0.3	L/ha	98.87	100.00			2	99.44	98.87	100.00	99.44	0.80
Difcor 250 EC	0.5	L/ha	98.42	101.93			2	100.18	98.42	101.93	100.18	2.48
Difcor 250 EC	0.7	L/ha	98.87	100.53			2	99.70	98.87	100.53	99.70	1.17
Difcor 250 EC	1	L/ha	97.07	102.28			2	99.68	97.07	102.28	99.68	3.68
Horizon	1.5	L/ha	100.11				1	100.11	100.11	100.11	100.11	
Score	0.5	L/ha	96.28				1	96.28	96.28	96.28	96.28	
Sunorg Pro	0.5	L/ha		99.47			1	99.47	99.47	99.47	99.47	
Part Rated			OILCON									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			45.65				1	45.65	45.65	45.65	45.65	
Difcor 250 EC	0.3	L/ha	100.31				1	100.31	100.31	100.31	100.31	
Difcor 250 EC	0.5	L/ha	101.58				1	101.58	101.58	101.58	101.58	
Difcor 250 EC	0.7	L/ha	101.16				1	101.16	101.16	101.16	101.16	
Difcor 250 EC	1	L/ha	100.83				1	100.83	100.83	100.83	100.83	
Horizon	1.5	L/ha	98.47				1	98.47	98.47	98.47	98.47	
Score	0.5	L/ha	99.67				1	99.67	99.67	99.67	99.67	
Part Rated			TKW									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (g)			5.01	3.88	4.70	5.04	4	4.66	3.88	5.04	4.86	0.54
Difcor 250 EC	0.3	L/ha	96.81	99.74	101.90	99.70	4	99.54	96.81	101.90	99.72	2.09
Difcor 250 EC	0.5	L/ha	100.80	100.26	103.10	99.10	4	100.81	99.10	103.10	100.53	1.68
Difcor 250 EC	0.7	L/ha	100.60	102.84	103.20	99.20	4	101.46	99.20	103.20	101.72	1.89
Difcor 250 EC	1	L/ha	102.79	101.80	101.80	100.30	4	101.67	100.30	102.79	101.80	1.03
Horizon	1.5	L/ha	97.60				1	97.60	97.60	97.60	97.60	
Score	0.5	L/ha	92.02				1	92.02	92.02	92.02	92.02	
Sunorg Pro	0.5	L/ha		98.97			1	98.97	98.97	98.97	98.97	
Caramba	1.2	L/ha			103.10		1	103.10	103.10	103.10	103.10	
Caramba	1.5	L/ha				98.50	1	98.50	98.50	98.50	98.50	

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difcor 250 EC will not negatively affect the yield quality of oilseed rape.

North-East EPPO Zone

Table 3.4-22 Yield quality as %UNCK in SCLESC and ALTEBA trials

			6.2-23	6.2-24	6.2-25	6.2-26	6.2-27	6.2-28	6.2-29	Summary					
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA	BEAVA	BEAVA	BEAVA						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			MOICON												
Name	Rate	Unit								n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			12.20	8.90	8.25	10.75	7.00	7.23	7.88	7	8.89	7.00	12.20	8.25	1.92
Difcor 250 EC	0.3	L/ha	94.92	104.27	101.82	99.35				4	100.09	94.92	104.27	100.58	3.99
Difcor 250 EC	0.5	L/ha	101.89	103.15	103.03	98.14	98.57	100.28	98.98	7	100.58	98.14	103.15	100.28	2.12
Difcor 250 EC	0.7	L/ha	98.36	102.81	102.42	99.35	100.43	100.69	97.08	7	100.16	97.08	102.81	100.43	2.08
Difcor 250 EC	1	L/ha	98.20	105.62	102.18	100.93				4	101.73	98.20	105.62	101.56	3.08
Horizon 250	1.25	L/ha	96.72	103.93	102.79	99.81	100.00	99.31	94.92	7	99.64	94.92	103.93	99.81	3.15
Toprex 375	0.5	L/ha					103.57	99.59	92.39	3	98.51	92.39	103.57	99.59	5.67
Part Rated			TKW												
Name	Rate	Unit								n	Mean	Min	Max	Median	Stdev
UNTREATED (g)			4.51	5.11	5.05	5.37				4	5.01	4.51	5.37	5.08	0.36
Difcor 250 EC	0.3	L/ha	104.43	104.89	102.97	99.07				4	102.84	99.07	104.89	103.70	2.65
Difcor 250 EC	0.5	L/ha	105.32	100.78	100.20	99.26				4	101.39	99.26	105.32	100.49	2.70
Difcor 250 EC	0.7	L/ha	104.43	97.85	101.39	99.07				4	100.68	97.85	104.43	100.23	2.90
Difcor 250 EC	1	L/ha	105.32	98.24	102.77	99.26				4	101.40	98.24	105.32	101.01	3.26
Horizon 250	1.25	L/ha	105.10	99.41	101.19	98.88				4	101.15	98.88	105.10	100.30	2.81
Part Rated			OILCON												
Name	Rate	Unit								n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			44.63	44.67	45.35	42.63				4	44.32	42.63	45.35	44.65	1.17
Difcor 250 EC	0.3	L/ha	99.10	98.23	100.18	100.52				4	99.51	98.23	100.52	99.64	1.04
Difcor 250 EC	0.5	L/ha	98.81	98.01	100.44	99.30				4	99.14	98.01	100.44	99.05	1.02
Difcor 250 EC	0.7	L/ha	98.10	98.23	101.10	99.70				4	99.28	98.10	101.10	98.96	1.41
Difcor 250 EC	1	L/ha	100.11	97.83	100.44	100.47				4	99.71	97.83	100.47	100.28	1.27
Horizon 250	1.25	L/ha	99.33	97.90	100.66	98.94				4	99.21	97.90	100.66	99.14	1.14

Table 3.4-23 Yield quality as %UNCK in LEPTMA trials

			6.2-31	6.2-32	6.2-33	6.2-34	Summary					
Crop Code			BEAVA	BEAVA	BEAVA	BEAVA						
Rating Unit			%UNCK	%UNCK	%UNCK	%UNCK						
Part Rated			MOICON									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			7.78	10.00	10.98	9.13	4	9.47	7.78	10.98	9.57	1.36
Difcor 250 EC	0.3	L/ha	97.04	106.50	101.09	103.50	4	102.04	97.04	106.50	102.30	4.00
Difcor 250 EC	0.5	L/ha	102.57	103.00	104.74	97.48	4	101.95	97.48	104.74	102.79	3.12
Horizon 250	1	L/ha	97.94	105.80	104.10	97.48	4	101.33	97.48	105.80	101.02	4.24
Horizon 250	0.75	L/ha	98.46	103.00	105.46	96.39	4	100.83	96.39	105.46	100.73	4.15
Toprex 375	0.5	L/ha	99.61	105.30	110.47	95.29	4	102.67	95.29	110.47	102.46	6.62
Part Rated			OILCON									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (%)			45.49	49.00	47.22	48.79	4	47.63	45.49	49.00	48.01	1.63
Difcor 250 EC	0.3	L/ha	99.93	99.35	101.38	99.61	4	100.07	99.35	101.38	99.77	0.91
Difcor 250 EC	0.5	L/ha	100.92	99.27	101.65	100.90	4	100.69	99.27	101.65	100.91	1.01
Horizon 250	1	L/ha	99.91	99.02	100.19	101.52	4	100.16	99.02	101.52	100.05	1.03
Horizon 250	0.75	L/ha	101.98	98.59	101.69	101.29	4	100.89	98.59	101.98	101.49	1.56
Toprex 375	0.5	L/ha	100.66	99.61	100.87	101.39	4	100.63	99.61	101.39	100.76	0.75
Part Rated			TKW									
Name	Rate	Unit					n	Mean	Min	Max	Median	Stdev
UNTREATED (g)			4.62	4.78	5.88	4.45	4	4.93	4.45	5.88	4.70	0.65
Difcor 250 EC	0.3	L/ha	102.60	105.65	100.00	102.92	4	102.79	100.00	105.65	102.76	2.31
Difcor 250 EC	0.5	L/ha	104.11	105.44	96.60	102.92	4	102.27	96.60	105.44	103.52	3.92
Horizon 250	1	L/ha	102.81	101.46	96.94	97.75	4	99.74	96.94	102.81	99.61	2.84
Horizon 250	0.75	L/ha	101.73	96.23	90.14	98.43	4	96.63	90.14	101.73	97.33	4.88
Toprex 375	0.5	L/ha	97.62	91.42	101.19	92.81	4	95.76	91.42	101.19	95.21	4.49

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difcor 250 EC will not negatively affect the yield quality of oilseed rape.

3.4.2.8 Bridging trials for Difenoconazole 500 SC on sugar beet

The absolute results for each yield quality parameter is given for the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.4-24 Yield quality as %UNCK

			6.2-48		6.2-49		Summary					
Rating Type			NITCON		NITCON							
Rating Unit			%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (mg/100g)			0.7	a	16	a	8.35	2	0.7	16	8.35	10.8187
Difenoconazole 500 SC	0.15	L/ha	87.14	a	88.4	a	87.7714	2	87.1429	88.4	87.7714	0.88893
Difenoconazole 500 SC	0.25	L/ha	104.29	a	100.32	a	102.303	2	100.32	104.286	102.303	2.80418
Difcor 250 EC	0.5	L/ha	110.00	a	86.58	a	98.29	2	86.58	110	98.29	16.5604
Score	0.4	L/ha	95.71	a			95.7143	1	95.7143	95.7143	95.7143	
Difure Pro	0.6	L/ha			95.77	a	95.77	1	95.77	95.77	95.77	
			6.2-48		6.2-49		Summary					
Rating Type			POTCON		POTCON							
Rating Unit			%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (mg/100g)			2.84	a	138.75	a	70.795	2	2.84	138.75	70.795	96.1029
Difenoconazole 500 SC	0.15	L/ha	101.41	a	85.33	a	93.3692	2	85.33	101.408	93.3692	11.3692
Difenoconazole 500 SC	0.25	L/ha	96.83	a	92.54	a	94.6855	2	92.54	96.831	94.6855	3.03419
Difcor 250 EC	0.5	L/ha	92.96	a	92.86	a	92.9089	2	92.86	92.9577	92.9089	0.06912
Score	0.4	L/ha	100.00	a			100	1	100	100	100	
Difure Pro	0.6	L/ha			95.41	a	95.41	1	95.41	95.41	95.41	
			6.2-48		6.2-49		Summary					
Rating Type			SODCON		SODCON							
Rating Unit			%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (mg/100g)			0.23	a	12.83	a	6.53	2	0.23	12.83	6.53	8.90955
Difenoconazole 500 SC	0.15	L/ha	104.35	a	88.76	a	96.5539	2	88.76	104.348	96.5539	11.0223
Difenoconazole 500 SC	0.25	L/ha	108.70	a	94.45	a	101.573	2	94.45	108.696	101.573	10.0732
Difcor 250 EC	0.5	L/ha	100.00	a	87.22	a	93.61	2	87.22	100	93.61	9.03682
Score	0.4	L/ha	95.65	a			95.6522	1	95.6522	95.6522	95.6522	
Difure Pro	0.6	L/ha			98.14	a	98.14	1	98.14	98.14	98.14	
			6.2-48		6.2-49		Summary					
Rating Type			SUGCON		SUGCON							
Rating Unit			%UNCK		%UNCK		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit										
UNTREATED (%)			18.42	a	17.57	a	17.995	2	17.57	18.42	17.995	0.60104
Difenoconazole 500 SC	0.15	L/ha	99.27	a	99.45	a	99.36	2	99.27	99.45	99.36	0.12728
Difenoconazole 500 SC	0.25	L/ha	94.64	a	99.73	a	97.185	2	94.64	99.73	97.185	3.59917
Difcor 250 EC	0.5	L/ha	100.01	a	101.02	a	100.515	2	100.01	101.02	100.515	0.71418
Score	0.4	L/ha	101.05	a			101.05	1	101.05	101.05	101.05	
Difure Pro	0.6	L/ha			99.65	a	99.65	1	99.65	99.65	99.65	

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield quality of sugar beet.

North-East EPPO Zone

Table 3.4-25 Yield quality as %UNCK

			6.2-48		6.2-48		6.2-48		6.2-48	
Rating Type			NITCON		POTCON		SODCON		SUGCON	
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK	
Name	Rate	Unit								
UNTREATED (mg/100g)			0.7	a	2.84	a	0.23	a	18.42	a
Difenoconazole 500 SC	0.15	L/ha	87.14	a	101.41	a	104.35	a	99.27	a
Difenoconazole 500 SC	0.25	L/ha	104.29	a	96.83	a	108.70	a	94.64	a
Difcor 250 EC	0.5	L/ha	110.00	a	92.96	a	100.00	a	100.01	a
Score	0.4	L/ha	95.71	a	100.00	a	95.65	a	101.05	a

Conclusion
Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield quality of sugar beet.

3.4.2.9 Bridging trials for Difenoconazole 500 SC on oilseed rape

The absolute results for each yield quality parameter is given for the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.4-26 Yield quality as %UNCK

			6.2-40		6.2-41		6.2-44		Summary					
Rating Type			MOICON		MOICON		MOICON							
Rating Unit			%UNCK		%UNCK		%UNCK							
Trt-Eval Interval			70 DA-A		65 DA-A		119 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (%)			7.80	a	6.71	a	11.29	a	8.60	3	6.71	11.29	7.80	2.39
Difenoconazole 500 SC	0.15	L/ha	101.02	a	98.37	a	103.30	a	100.90	3	98.37	103.30	101.02	2.47
Difenoconazole 500 SC	0.25	L/ha	101.36	a	99.75	a	99.67	a	100.26	3	99.67	101.36	99.75	0.95
Difcor 250 EC	0.5	L/ha	100.34	a	102.12	a	103.96	a	102.14	3	100.34	103.96	102.12	1.81
Sirena	1.5	L/ha			101.26	a			101.26	1	101.26	101.26	101.26	
			6.2-40		6.2-41		6.2-44		Summary					
Rating Type			TKW		TKW		TKW							
Rating Unit			%UNCK		%UNCK		%UNCK							
Trt-Eval Interval			91 DA-A		87 DA-A		119 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (g)			4.48	a	4.63	a	5.35	a	4.82	3	4.48	5.35	4.63	0.47
Difenoconazole 500 SC	0.15	L/ha	100.68	a	100.54	a	101.84	a	101.02	3	100.54	101.84	100.68	0.71
Difenoconazole 500 SC	0.25	L/ha	97.44	a	102.71	a	103.99	a	101.38	3	97.44	103.99	102.71	3.47
Difcor 250 EC	0.5	L/ha	103.46	a	102.19	a	101.01	a	102.22	3	101.01	103.46	102.19	1.23
Sirena	1.5	L/ha			101.63	a			101.63	1	101.63	101.63	101.63	

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield quality of oilseed rape.

North-East EPPO Zone

Table 3.4-27 Yield quality as %UNCK

			6.2-40		6.2-41		6.2-46		Summary					
Rating Type			MOICON		MOICON		MOICON							
Rating Unit			%UNCK		%UNCK		%UNCK							
Trt-Eval Interval			70 DA-A		65 DA-A		69 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (%)			7.80	a	6.71	a	7.25	a	7.25	3	6.71	7.80	7.25	0.55
Difenoconazole 500 SC	0.15	L/ha	101.02	a	98.37	a	100.67	a	100.02	3	98.37	101.02	100.67	1.44
Difenoconazole 500 SC	0.25	L/ha	101.36	a	99.75	a	100.69	a	100.60	3	99.75	101.36	100.69	0.81
Difcor 250 EC	0.5	L/ha	100.34	a	102.12	a	101.04	a	101.17	3	100.34	102.12	101.04	0.90
Sirena	1.5	L/ha			101.26	a			101.26	1	101.26	101.26	101.26	
			6.2-40		6.2-41		6.2-46		Summary					
Rating Type			TKW		TKW		TKW							
Rating Unit			%UNCK		%UNCK		%UNCK							
Trt-Eval Interval			91 DA-A		87 DA-A		69 DA-A		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit												
UNTREATED (g)			4.48	a	4.63	a	4.89	c	4.67	3	4.48	4.89	4.63	0.21
Difenoconazole 500 SC	0.15	L/ha	100.68	a	100.54	a	104.21	bc	101.81	3	100.54	104.21	100.68	2.08
Difenoconazole 500 SC	0.25	L/ha	97.44	a	102.71	a	107.06	ab	102.40	3	97.44	107.06	102.71	4.82
Difcor 250 EC	0.5	L/ha	103.46	a	102.19	a	112.42	a	106.02	3	102.19	112.42	103.46	5.58
Sirena	1.5	L/ha			101.63	a			101.63	1	101.63	101.63	101.63	

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield quality of oilseed rape.

3.4.2.10 Bridging trials for Difenoconazole 500 SC on potato

The absolute results for each yield quality parameter is given for the untreated controls and the relative amounts compared to the untreated control (%UNCK) are shown in the tables below. Trials performed in the Maritime EPPO Zone, but which are also valid for Poland (Czech and German trials) have their trial number marked in green. Trials performed in the rest of the Maritime EPPO Zone have their trial numbers marked in blue. Trials performed in the North-East EPPO Zone have their trial numbers marked in yellow.

Maritime EPPO Zone

Table 3.4-28 Yield quality as %UNCK

			6.2-53		6.2-54		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59							
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			MAMDEF		MAMDEF		MAMDEF		MAMDEF		MAMDEF		MAMDEF		MAMDEF		Summary					
Rating Unit			kg		kg		kg		kg		kg		kg		kg		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			0.09	a	12.21	a	0.00	a	0.00	a	0.00	a	0.00	a	2.75	a	2.15	7	0	12.21	0.00	4.55
Difenoconazole 500 SC	0.15	L/ha	0.00	a	7.24	a	0.00	a	0.00	a	0.00	a	0.00	a	4.03	a	1.61	7	0	7.24	0.00	2.90
Difenoconazole 500 SC	0.22	L/ha			9.83	a			0.00	a							4.92	2	0	9.83	4.92	6.95
Difenoconazole 500 SC	0.25	L/ha	0.00	a			0.00	a			0.00	a	0.00	a	5.17	a	1.03	5	0	5.17	0.00	2.31
Difcor 250 EC	0.4	L/ha													4.16	a	4.16	1	4.16	4.16	4.16	
Difcor 250 EC	0.5	L/ha	0.00	a	8.38	a	0.00	a	0.00	a	0.00	a	0.00	a	6.94	a	2.19	7	0	8.38	0.00	3.76
			6.2-53		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59									
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER									
Rating Type			STACON		STACON		STACON		STACON		STACON		STACON				Summary					
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK		%UNCK		%UNCK				Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (%)			16.45	bc	8.59	a	7.30	a	7.66	a	7.51	a	20.50	a			11.34	6	7.30	20.50	8.13	5.69
Difenoconazole 500 SC	0.15	L/ha	105.20	a	92.80	a	98.29	a	99.08	a	100.14	a	108.14	a			100.61	6	92.80	108.14	99.61	5.42
Difenoconazole 500 SC	0.22	L/ha					99.86	a									99.86	1	99.86	99.86	99.86	
Difenoconazole 500 SC	0.25	L/ha	103.96	a	98.35	a			99.81	a	100.77	a	108.16	a			102.21	5	98.35	108.16	100.77	3.91
Difcor 250 EC	0.4	L/ha											105.58	a			105.58	1	105.58	105.58	105.58	
Difcor 250 EC	0.5	L/ha	100.47	bc	95.03	a	99.85	a	98.81	a	100.70	a	105.33	a			100.03	6	95.03	105.33	100.16	3.32

Table 3.4-29 Yield distribution in different size classes as % of total yield

			6.2-53		6.2-54		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59							
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			COMPR1		COMPR1		COMPR1		COMPR1		COMPR1		COMPR1		COMPR1		Summary					
Rating Unit			%		%		%		%		%		%		%		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			33.20	a	0.20	a	8.81	a	8.74	a	4.61	a	15.56	a	2.98	a	10.59	7	0.20	33.20	8.74	11.14
Difenoconazole 500 SC	0.15	L/ha	31.04	a	0.46	a	9.28	a	7.02	a	4.32	a	15.91	a	2.70	a	10.10	7	0.46	31.04	7.02	10.52
Difenoconazole 500 SC	0.22	L/ha			0.08	a			8.13	a							4.11	2	0.08	8.13	4.11	5.69
Difenoconazole 500 SC	0.25	L/ha	30.75	a			9.69	a			4.51	a	16.81	a	2.93	a	12.94	5	2.93	30.75	9.69	11.34
Difcor 250 EC	0.4	L/ha													2.13	a	2.13	1	2.13	2.13	2.13	
Difcor 250 EC	0.5	L/ha	32.31	a	0.94	a	9.00	a	6.67	a	4.41	a	15.55	a	2.40	a	10.18	7	0.94	32.31	6.67	10.89
			6.2-53		6.2-54		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59							
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			COMPR2		COMPR2		COMPR2		COMPR2		COMPR2		COMPR2		COMPR2		Summary					
Rating Unit			%		%		%		%		%		%		%		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			66.33	a	73.39	a	72.75	a	79.23	a	13.80	a	69.87	a	66.04	a	63.06	7	13.80	79.23	69.87	22.19
Difenoconazole 500 SC	0.15	L/ha	68.83	a	83.33	a	71.86	a	73.30	a	15.44	a	71.12	a	56.78	b	62.95	7	15.44	83.33	71.12	22.35
Difenoconazole 500 SC	0.22	L/ha			78.15	a			80.80	a							79.48	2	78.15	80.80	79.48	1.87
Difenoconazole 500 SC	0.25	L/ha	68.45	a			73.65	a			13.00	a	70.63	a	52.22	b	55.59	5	13.00	73.65	68.45	25.21
Difcor 250 EC	0.4	L/ha													53.06	b	53.06	1	53.06	53.06	53.06	
Difcor 250 EC	0.5	L/ha	67.69	a	76.18	a	71.44	a	76.52	a	13.91	a	68.45	a	53.43	b	61.09	7	13.91	76.52	68.45	22.19
			6.2-53		6.2-54		6.2-55		6.2-56		6.2-57		6.2-58		6.2-59							
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			COMPR3		COMPR3		COMPR3		COMPR3		COMPR3		COMPR3		COMPR3		Summary					
Rating Unit			%		%		%		%		%		%		%		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			0.47	a	26.41	a	18.45	a	12.03	a	81.60	a	14.57	a	30.99	b	26.36	7	0.47	81.60	18.45	26.30
Difenoconazole 500 SC	0.15	L/ha	0.14	a	16.22	a	18.86	a	19.68	a	80.24	a	12.97	a	40.53	a	26.95	7	0.14	80.24	18.86	26.37
Difenoconazole 500 SC	0.22	L/ha			21.78	a			11.08	a							16.43	2	11.08	21.78	16.43	7.57
Difenoconazole 500 SC	0.25	L/ha	0.97	a			16.66	a			82.50	a	12.56	a	44.87	a	31.51	5	0.97	82.50	16.66	32.75
Difcor 250 EC	0.4	L/ha													44.81	a	44.81	1	44.81	44.81	44.81	
Difcor 250 EC	0.5	L/ha	0.00	a	22.88	a	19.56	a	16.81	a	81.68	a	16.01	a	44.14	a	28.73	7	0.00	81.68	19.56	26.74

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield quality of potato

North-East EPPO Zone

Table 3.4-30 Yield quality as %UNCK

			6.2-53		6.2-54		6.2-60		6.2-61		6.2-62		6.2-63		6.2-64		Summary					
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			MAMDEF		MAMDEF		MAMDEF		MAMDEF		MAMDEF		MAMDEF		MAMDEF							
Rating Unit			kg		kg		kg		kg		kg		kg		kg		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			0.09	a	12.21	a	0.25	a	0.02	a	0.43	a	0.14	a	3.22	a	2.34	7	0.02	12.21	0.25	4.50
Difenoconazole 500 SC	0.15	L/ha	0.00	a	7.24	a	0.00	b	0.00	b	0.05	ab	0.29	a	2.69	b	1.47	7	0	7.24	0.05	2.73
Difenoconazole 500 SC	0.22	L/ha			9.83	a											9.83	1	9.83	9.83	9.83	
Difenoconazole 500 SC	0.25	L/ha	0.00	a			0.00	b	0.00	b	0.06	ab	0.17	a	2.80	b	0.51	6	0	2.80	0.03	1.13
Difcor 250 EC	0.5	L/ha	0.00	a	8.38	a	0.00	b	0.00	b	0.04	ab	0.16	a	2.69	b	1.61	7	0	8.38	0.04	3.14
			6.2-53		6.2-60		6.2-61		6.2-63								Summary					
Part Rated			TUBER		TUBER		TUBER		TUBER													
Rating Type			STACON		STACON		STACON		STACON													
Rating Unit			%UNCK		%UNCK		%UNCK		%UNCK								Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED (%)			16.45	bc	19.53	c	14.98	a	14.25	a							16.30	4	14.25	19.53	15.72	2.34
Difenoconazole 500 SC	0.15	L/ha	105.20	a	104.26	ab	102.71	a	96.86	a							102.26	4	96.86	105.20	103.49	3.74
Difenoconazole 500 SC	0.25	L/ha	103.96	a	105.01	ab	104.12	a	94.37	a							101.87	4	94.37	105.01	104.04	5.02
Difcor 250 EC	0.5	L/ha	100.47	bc	104.76	ab	103.92	a	96.65	a							101.45	4	96.65	104.76	102.20	3.70

Table 3.4-31 Yield distribution in different size classes as % of total yield

			6.2-53		6.2-54		6.2-60		6.2-61		6.2-62		6.2-63		6.2-64		Summary					
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			COMPR1		COMPR1		COMPR1		COMPR1		COMPR1		COMPR1		COMPR1							
Rating Unit			%		%		%		%		%		%		%ABS		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			33.20	a	0.20	a	27.09	b	23.22	a	4.62	a	4.20	a	57.42	a	21.42	7	0.20	57.42	23.22	20.41
Difenoconazole 500 SC	0.15	L/ha	31.04	a	0.46	a	35.64	a	24.06	a	4.62	a	3.13	a	59.03	a	22.57	7	0.46	59.03	24.06	21.46
Difenoconazole 500 SC	0.22	L/ha			0.08	a											0.08	1	0.08	0.08	0.08	
Difenoconazole 500 SC	0.25	L/ha	30.75	a			37.30	a	23.86	a	4.07	ab	2.27	a	60.13	a	26.40	6	2.27	60.13	27.31	21.74
Difcor 250 EC	0.5	L/ha	32.31	a	0.94	a	37.39	a	24.01	a	3.81	ab	4.57	a	60.30	a	23.33	7	0.94	60.30	24.01	21.91
			6.2-53		6.2-54		6.2-60		6.2-61		6.2-62		6.2-63		6.2-64		Summary					
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			COMPR2		COMPR2		COMPR2		COMPR2		COMPR2		COMPR2		COMPR2							
Rating Unit			%		%		%		%		%		%		%ABS		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			66.33	a	73.39	a	37.80	a	67.47	a	47.43	a	54.11	a	29.35	a	53.70	7	29.35	73.39	54.11	16.44
Difenoconazole 500 SC	0.15	L/ha	68.83	a	83.33	a	43.20	a	69.74	a	41.07	ab	53.05	a	31.80	a	55.86	7	31.80	83.33	53.05	18.62
Difenoconazole 500 SC	0.22	L/ha			78.15	a											78.15	1	78.15	78.15	78.15	
Difenoconazole 500 SC	0.25	L/ha	68.45	a			40.16	a	69.26	a	39.64	b	50.29	a	30.82	a	49.77	6	30.82	69.26	45.23	16.02
Difcor 250 EC	0.5	L/ha	67.69	a	76.18	a	37.75	a	69.07	a	42.05	ab	58.51	a	30.37	a	54.52	7	30.37	76.18	58.51	17.75
			6.2-53		6.2-54		6.2-60		6.2-61		6.2-62		6.2-63		6.2-64		Summary					
Part Rated			TUBER		TUBER		TUBER		TUBER		TUBER		TUBER		TUBER							
Rating Type			COMPR3		COMPR3		COMPR3		COMPR3		COMPR3		COMPR3		COMPR3							
Rating Unit			%		%		%		%		%		%		%ABS		Mean	n	Min	Max	Median	Stdev
Name	Rate	Unit																				
UNTREATED			0.47	a	26.41	a	35.11	a	9.32	a	52.15	a	41.69	a	4.16	a	24.19	7	0.47	52.15	26.41	19.99
Difenoconazole 500 SC	0.15	L/ha	0.14	a	16.22	a	21.16	b	6.20	b	54.32	a	43.82	a	3.72	a	20.80	7	0.14	54.32	16.22	20.84
Difenoconazole 500 SC	0.22	L/ha			21.78	a											21.78	1	21.78	21.78	21.78	
Difenoconazole 500 SC	0.25	L/ha	0.97	a			22.54	b	6.89	ab	56.29	a	47.44	a	3.47	a	22.93	6	0.97	56.29	14.72	23.80
Difcor 250 EC	0.5	L/ha	0.00	a	22.88	a	24.85	b	6.93	ab	54.15	a	36.92	a	3.64	a	21.34	7	0.00	54.15	22.88	19.62

Conclusion

Together, all selectivity data gathered in the efficacy trials confirms that Difenoconazole 500 SC will not negatively affect the yield quality of potato

Comments of zRMS:	Overall, Difenoconazole 500 SC applied at proposed label rate showed no negative effects on quality of oilseed rape, potato and sugar beet. Therefore, no impact of Difenoconazole 500 SC on quality of yield is to be expected, when applied within proposed label rate range and according to label recommendations.

3.4.3 Effects on transformation processes (KCP 6.4.4)

Not required for the crops for which registration is requested according to EPPO Guideline PP 1/243(2).

Comments of zRMS:	Acceptable. No further information is required.

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

No required for fungicides according to EPPP Guideline PP 135(4).

Comments of zRMS:	Acceptable. No further information is required.

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

There were no adverse effects on beneficial and other non-target organisms observed in any of the trials submitted in this dossier.

Comments of zRMS:	Acceptable. No further information is required.

3.5.1 Impact on succeeding crops (KCP 6.5.1)

In seedling emergence study 10.6.2-01 the seedling emergence and seedling growth was tested on six terrestrial plant species; wheat, onion, lettuce, carrot, white mustard and tomato. In the test Difenoconazole 500 SC (= GLOB1911F) was applied after sowing (BBCH 0) at application rates of up to 1 L/ha Difenoconazole 500 SC in 200 L/ha water. No phytotoxic effects, no effect on seedling emergence or plant survival and no effect on fresh shoot weight were detected in this trial.

Calculation of the PEC_{soil}

The initial and actual PEC_{soil} are calculated with equation 1 and 2 respectively:

PEC initial

$$PEC_{ini} = \frac{A \cdot (1 - f_{int})}{100 \cdot d \cdot bd} \qquad (1)$$

where
A = application rate [g/ha]
f_{int} = fraction intercepted by plant cover
d = depth of the soil layer [cm]
bd = bulk soil density [g/cm³]

PEC actual

$$PEC_{act}(t) = PEC_{ini} \cdot e^{-kt} = PEC_{ini} \cdot e^{-\frac{t \ln 2}{DT50}} \qquad (2)$$

When we consider the threshold ER_{10} value to be 1 L/ha we can convert this to an EC_{10} value (mg a.i./kg soil) using the PEC formula assuming a bulk soil density of 1.5 g/cm³; no soil cultivation (depth of 5 cm) and no crop interception. This results in a PEC value of 0.6667 mg a.i./kg soil.

The requested use of Difenoconazole 500 SC on potatoes is a maximum of 4 applications of 0.25 L/ha at BBCH 40-89. The crop interception at this growth stage is 85% according to FOCUS Ground Water

Assessments document Version 1.1 of May 2014. If we then assume, as a worst case scenario all applications were performed at once with a bulk soil density of 1.5 g/cm³ and no soil cultivation (depth of 5 cm) this results in an initial PEC value of 0.1000 mg a.i./kg soil.

The requested use of Difenoconazole 500 SC on sugar beet is a maximum of 3 applications of 0.25 L/ha at BBCH 40-89. The crop interception at this growth stage is 90% according to FOCUS Ground Water Assessments document Version 1.1 of May 2014. If we then assume, as a worst case scenario all applications were performed at once with a bulk soil density of 1.5 g/cm³ and no soil cultivation (depth of 5 cm) this results in an initial PEC value of 0.0500 mg a.i./kg soil.

The requested use of Difenoconazole 500 SC on oilseed rape is a maximum of 2 applications of 0.25 L/ha. The crop interception at BBCH 10-19 (worst case) is 40% according to FOCUS Ground Water Assessments document Version 1.1 of May 2014. If we then assume, as a worst case scenario all applications were performed at once with a bulk soil density of 1.5 g/cm³ and no soil cultivation (depth of 5 cm) this results in an initial PEC value of 0.2000 mg a.i./kg soil.

The TER can be calculated by dividing the EC_{10} (0.6667 mg a.i./kg soil) by the PEC_{soil}. For our worst case scenario (oilseed rape) the initial PEC_{soil} was 0.2000 mg a.i./kg soil, so the resulting TER value is 3.3335. When the TER is >1 the toxicity exposure rate is considered acceptable. Therefore it can be stated that Difenoconazole 500 SC will not affect any succeeding crops planted immediately after application on potato, sugar beet or oilseed rape.

Comments of zRMS:	Based on submitted results and current knowledge it is possible to state that there is no risk of appearance of the adverse effect of the fungicide Difenoconazole 500 SC on succeeding crops even in the event of crop failure on a field which has been treated with this product.

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

In vegetative vigour study 10.6.2-02 the possible adverse effects of treatment with Difenoconazole 500 SC were tested on six terrestrial plant species; wheat, onion, lettuce, carrot, white mustard and tomato. In the test Difenoconazole 500 SC (= GLOB1911F) was applied at BBCH 12-14 at application rates of up to 1 L/ha Difenoconazole 500 SC in 200 L/ha water. No phytotoxic effects, no effect on plant survival and no effect on fresh shoot weight were detected in this trial.

When we consider the threshold ER_{10} value to be 1 L/ha, which is not exceeded by the worst case application of Difenoconazole 500 SC (see section 3.5.1), even without taking drift rates into account, it can be stated that Difenoconazole 500 SC will not affect any adjacent crops and therefore the standard buffer zone of 1m is sufficient.

Comments of zRMS:	It can be concluded that the application of Difenoconazole 500 SC will not have unacceptable effects on non-target terrestrial plants when applied at a maximum application rate of 0.25 L/HA.

3.6 Other/special studies

No other/special studies were performed.

3.7 List of test facilities including the corresponding certificates

Table 3.7-1: List of test facilities

Test facility	Address	Certificate (Yes or No)
Essais+	1 rue du 8 mai 62128 Boyelles France	Y
Eurofins Agroscience Services FR (Agrisearch France) (GAB France) (Entreprise Decarsin)	1163 route de Lafrançaise 82290 Meauzac France	Y
Gemerproduct Valice	Malohontská 1535/5 979 01 Rimavská Sobota Slovakia	Y
Agrostat Sp. z.o.o.	Ul. Ziebicka 2 60-164 Poznan Poland	Y
Eurofins Agroscience Services Ltd	Slade Lande, Wilson, Melbourne, Derbyshire, DE73 8AG UK	Y
Eurofins Agroscience Sercives DE (GAB Biotechnologie GmbH)	Eutinger Strase 24, 21684 Stade Carl-Goerdeler-Weg 3 Germany	Y
SGS Institut Fresenius GmbH	Europa-Allee 12 D49685 Emsteck Germany	Y
SGS Agri MIN	Allée de l'industrie, Z.I. des Patis 76140 Petit Quevilly France	Y
Zkušební stanice Nechanice s.r.o.	Štolbova 319 503 15 Nechanice Czech Republic	Y
Field Research Support DE	Max-Planck-Straße 5 D-31515 Wunstorf Germany	Y
Field Research Support PL	Dworcowa 2 St. 64-000 Kościan Poland	Y
Oxford Agricultural Trials Limited	West Farm Barns, Launton Road, Stratton Audley Bicester, OX27 9AS UK	Y
Poznań University of Life Sciences	ul. Wojska Polskiego 28 60-637 Poznań Poland	Y
Zemedelsky vyzkumny ustav Kromeriz, s.r.o.,	Havlickova 2787/121 767 01 Kromeriz Czech Republic	Y
Agrartest GmbH	Palmbachstrasse 37	Y

Test facility	**Address**	**Certificate (Yes or No)**
	65326 Aarbergen-Panrod Germany	
Promo-Vert SAS	ZI du Haut Ossau, Rue d'Aste Béon 64121 Serres-Castet France	Y
Synthech Research Poland Sp. z.o.o.	69/1 Jagiellonska 85-027 Bydgoszcz Poland	Y
Ing. Jitka Mareckova, ZS Krasne Udoli	Krane Udoli 141 364 01 Touzim Czech Republic	Y
Quitus GmbH	Liepen 7 17194 Liepen Germany	Y
Proeftuin Zwaagdijk	Tolweg 13 1681 ND Zwaagdijk-Oost the Netherlands	Y
HS Skåne HUSEC	Borgeby Slottsväg 11 SE-237 91 Bjärred, Sweden	Y
Research Institute of Horticulture Skierniewice (InHort)	Konstytucji 3 Maja 1/3 96-100 Skierniewice Poland	Y

Appendix 1 Lists of data considered in support of the evaluation

Tables considered not relevant can be deleted as appropriate.

MS to blacken authors of vertebrate studies in the version made available to third parties/public.

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 protection claimed	Vertebrate study Y/N	Owner
KCP 6.2-11	Rivet, J-P	2011	Efficacy of fungicides against *Uromyces betae* on Sugarbeets Report number: 1107F06 Laboratory: Essais + Sponsor: Globachem N.V. GEP, not published	Y	N	Globachem N.V.
KCP 6.2-12	Rivet, J-P	2011	Efficacy of fungicides against *Uromyces betae* on Sugarbeets Report number: 1107F07 Laboratory: Essais + Sponsor: Globachem N.V. GEP, not published	Y	N	Globachem N.V.
KCP 6.2-13	Karniewicz, V.	2011	Determination of Efficacy of Difenoconazole 150 + Propiconazole 150 EC against fungal diseases in sugar beet, 1 Site in France 2011 Report number: S11-02726-01 Laboratory: Eurofins Agroscience Services Sponsor: Globachem N.V. GEP, not published	Y	N	Globachem N.V.
KCP 6.2-14	Karniewicz, V.	2011	Determination of Efficacy of Difenoconazole 150 + Propiconazole 150 EC against fungal diseases in sugar beet, 1 Site in France 2011 Report number: S11-02726-02 Laboratory: Eurofins Agroscience Services Sponsor: Globachem N.V. GEP, not published	Y	N	Globachem N.V.
KCP 6.2-15	Karniewicz, V.	2011c	Determination of Efficacy of Difenoconazole 150 + Propiconazole 150 EC against fungal diseases in sugar beet, 1 Site in France 2011 Report number: S11-02726-03 Laboratory: Eurofins Agroscience Services Sponsor: Globachem N.V. GEP, not published	Y	N	Globachem N.V.
KCP 6.2-16	Karniewicz, V.	2011	Determination of Efficacy of Difenoconazole 150 + Propiconazole 150 EC against fungal diseases in sugar beet, 1 Site in France 2011 Report number: S11-02726-04 Laboratory: Eurofins Agroscience Services Sponsor: Globachem N.V. GEP, not published	Y	N	Globachem N.V.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data protection claimed	Vertebrate study Y/N	Owner
KCP 6.2-21	Toth, F.	2010	Trial report of Plant Protection Products. Report number: 22/F/2010RS Laboratory: Gemerprodukt Valice, OVD Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-22	Toth, F.	2010	Trial report of Plant Protection Products. Report number: 28/F/2010RS Laboratory: Gemerprodukt Valice, OVD Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-23	Schmidt, I.	2009	Efficacy and selectivity of Difenoconazole 250 EC against SCLESC (Sclerotinia sclerotiorum / Cottony rot), ALTEBA (Alternaria brassicae / Black spot of rape) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2009. Report number: 25-01/2009 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-24	Schmidt, I.	2009	Efficacy and selectivity of Difenoconazole 250 EC against SCLESC (Sclerotinia sclerotiorum / Cottony rot), ALTEBA (Alternaria brassicae / Black spot of rape) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2009. Report number: 25-02/2009 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-25	Schmidt, I.	2009	Efficacy and selectivity of Difenoconazole 250 EC against SCLESC (Sclerotinia sclerotiorum / Cottony rot), ALTEBA (Alternaria brassicae / Black spot of rape) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2009. Report number: 25-03/2009 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-26	Schmidt, I.	2009	Efficacy and selectivity of Difenoconazole 250 EC against SCLESC (Sclerotinia sclerotiorum / Cottony rot), ALTEBA (Alternaria brassicae / Black spot of rape) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2009. Report number: 25-04/2009 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-27	Maurer, B.	2010	Determination of efficacy and selectivity of Tebucur, Difenoconazole 250 EC, Difenoconazole 125 + tebuconazole 250 against SCLESC (Sclerotinia sclerotiorum / cottony rot), ALTEBA (Alternaria brassicae / black spot of rape) on BRSNW (Brassica napus napus (winter) / winter rapeseed). Registration purpose. Poland 2010 Report number: 25-18/2010	Y	N	Globachem N.V.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data protection claimed	Vertebrate study Y/N	Owner
			Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published			
KCP 6.2-28	Maurer, B.	2010	Determination of efficacy and selectivity of Tebucur, Difenoconazole 250 EC, Difenoconazole 125 + tebuconazole 250 against SCLESC (Sclerotinia sclerotiorum / cottony rot), ALTEBA (Alternaria brassicae / black spot of rape) on BRSNW (Brassica napus napus (winter) / winter rapeseed). Registration purpose. Poland 2010 Report number: 25-19/2010 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-29	Maurer, B.	2010	Determination of efficacy and selectivity of Tebucur, Difenoconazole 250 EC, Difenoconazole 125 + tebuconazole 250 against SCLESC (Sclerotinia sclerotiorum / cottony rot), ALTEBA (Alternaria brassicae / black spot of rape) on BRSNW (Brassica napus napus (winter) / winter rapeseed). Registration purpose. Poland 2010 Report number: 25-20/2010 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-30	Ridgway, J.	2011	Determination of Efficacy of Tebuconazole and Difenoconazole against Alternaria leaf and pod spot and Sclerotinia stem rot in winter oilseed rape, 1 Site in the UK, 4 Sites in France and 1 Site in Germany, 2010 Report number: S10-01762 Laboratory: Eurofins Agroscience Services Ltd Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-31	Ciesla, M.	2011	Determination of efficacy and selectivity of Difenoconazole 250 EC, DIFCOR 250 EC, Difenoconazole 125 + Tebuconazole 250 EW against LEPTMA (Leptosphaeria maculans/Black leg of crucifers) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2011. Report number: 8633/01/2011 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-32	Ciesla, M.	2011	Determination of efficacy and selectivity of Difenoconazole 250 EC, DIFCOR 250 EC, Difenoconazole 125 + Tebuconazole 250 EW against LEPTMA (Leptosphaeria maculans/Black leg of crucifers) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2011. Report number: 8633/02/2011 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data protection claimed	Vertebrate study Y/N	Owner
KCP 6.2-33	Ciesla, M.	2011	Determination of efficacy and selectivity of Difenoconazole 250 EC, DIFCOR 250 EC, Difenoconazole 125 + Tebuconazole 250 EW against LEPTMA (Leptosphaeria maculans/Black leg of crucifers) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2011. Report number: 8633/03/2011 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-34	Ciesla, M.	2011	Determination of efficacy and selectivity of Difenoconazole 250 EC, DIFCOR 250 EC, Difenoconazole 125 + Tebuconazole 250 EW against LEPTMA (Leptosphaeria maculans/Black leg of crucifers) on BRSNW (Brassica napus napus (winter) / Winter rapeseed). Registration purpose. Poland 2011. Report number: 8633/04/2011 Laboratory: Agrostat Sp. z.o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-35	Marocchi, A.	2011	GEP trial report. Evaluate efficacy and selectivity of Glob 4.20, DIFCOR and TEBUCUR against Phoma lingam on Oil Seed Rape. Germany 2010. Report number: 10 OSR F GBM 001-07 Laboratory: SGS Agri Min Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-36	Marocchi, A.	2011	GEP trial report. Evaluate efficacy and selectivity of Glob 4.20, DIFCOR and TEBUCUR against Phoma lingam on Oil Seed Rape. France 2010. Report number: 10 OSR F GRM TS 002 Laboratory: SGS Agri Min Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-37	Marocchi, A.	2011	GEP trial report. Evaluate efficacy and selectivity of Glob 4.20, DIFCOR and TEBUCUR against Phoma lingam on Oil Seed Rape. France 2010. Report number: 10 OSR F GBM 004 Laboratory: SGS Agri Min Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-39	Eberhardt, A.	2011	Determination of efficacy of Difenoconazole against Phoma lingam in winter oilseed rape, 3 sites in Northern Europe 2009/2010. Report number: S09-00934 Laboratory: Eurofins Agroscience Services Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-40	Tomas Spitzer	2019	Efficacy of Difenoconazole against diseases in OSR. Report number: FE-19-B-DifcorSC-CZ01 Laboratory: Zemedelsky vyzkumny ustav Kromeriz, s.r.o., Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data protection claimed	Vertebrate study Y/N	Owner
KCP 6.2-41	Uwe Gerdau	2019	Efficacy of Difenoconazole against diseases in OSR. Report number: FE-19-B-DifcorSC-DE02 Laboratory: Agrartest GmbH Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-42	ChenevalL-Pallud Sylvie	2019	Efficacy of Difenoconazole against diseases in OSR. Report number: FE-19-B-DifcorSC-FR03 Laboratory: Promo-Vert SAS Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-43	Duncan Carr	2019	Efficacy of Difenoconazole against diseases in OSR. Report number: FE-19-B-DifcorSC-UK07 Laboratory: Oxford Agricultural Trials Limited Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-44	Andy Hunt	2019	Efficacy of Difenoconazole against diseases in OSR. Report number: FE-19-B-DifcorSC-UK08 Laboratory: Oxford Agricultural Trials Limited Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-45	Mateusz Ćwiek	2019	Efficacy of Difenoconazole against diseases in OSR. Report number: FE-19-B-DifcorSC-PL06 Laboratory: SynTech Research Poland Sp. z o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-47	Lenka Vasatkova-Stanclova	2019	Efficacy of Difenoconazole against CERCBE in sugar beet. Report number: FE-19-D-DifcorSC-CZ01 Laboratory: Zkušební stanice Nechanice s.r.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-48	Sören Hötzel	2019	Efficacy of Difenoconazole against CERCBE in sugar beet. Report number: FE-19-D-DifcorSC-DE02 Laboratory: Field Research Support Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-49	Doug Slater	2019	Efficacy of Difenoconazole against CERCBE in sugar beet. Report number: FE-19-D-DifcorSC-UK06 Laboratory: Oxford Agricultural Trials Limited Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-50	Andy Hunt	2019	Efficacy of Difenoconazole against CERCBE in sugar beet. Report number: FE-19-D-DifcorSC-UK07 Laboratory: Oxford Agricultural Trials Limited Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data protection claimed	Vertebrate study Y/N	Owner
KCP 6.2-51	Adrian Skorczyk	2019	Efficacy of Difenoconazole against CERCBE in sugar beet. Report number: FE-19-D-DifcorSC-PL04 Laboratory: Field Research Support Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-52	Agnieszka Faligowska	2019	Efficacy of Difenoconazole against CERCBE in sugar beet. Report number: FE-19-D-DifcorSC-PL05 Laboratory: Poznań University of Life Sciences Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-53	Ing. Jitka Mareckova	2018	Efficacy and selectivity of Difenoconazole 250 SC and Narita against Alternaria sp. in potato. Report number: FE-18-B-DIF-NARITA-CZ01 Laboratory: Ing. Jitka Mareckova, ZS Krasne Udoli Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-54	Katrin Torkler	2018	Efficacy and selectivity of Difenoconazole 250 SC and Narita against Alternaria sp. in potato. Report number: FE-18-B-DIF-NARITA-DE04 Laboratory: Quintus GmbH Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-55	Henk de Vries	2018	Efficacy and selectivity of Difenoconazole 250 SC and Narita against Alternaria sp. in potato. Report number: FE-18-B-DIF-NARITA-NL06 Laboratory: Proeftuin Zwaagdijk Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-56	Henk de Vries	2018	Efficacy and selectivity of Difenoconazole 250 SC and Narita against Alternaria sp. in potato. Report number: 181363 FE-18-B-DIF-NARITA-NL06_2 Laboratory: Proeftuin Zwaagdijk Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-57	Henk de Vries	2019	Efficacy and selectivity of difenoconazole against ALTESP in potato. Report number: FE-19-C-DifcorSC-BE04 Laboratory: Proeftuin Zwaagdijk Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-58	Henk de Vries	2019	Efficacy and selectivity of difenoconazole against ALTESP in potato. Report number: FE-19-C-DifcorSC-NL05 Laboratory: Proeftuin Zwaagdijk Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.

Data point	Author(s)	Year	Title Company Report No. Source (where different from company) GLP or GEP status Published or not	Data protection claimed	Vertebrate study Y/N	Owner
KCP 6.2-59	Lisa Conrad	2019	Efficacy and selectivity of difenoconazole against ALTESP in potato. Report number: FE-19-C-DifcorSC-SE03 Laboratory: HS Skåne HUSEC Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-60	Mateusz Cieśla	2018	Efficacy and selectivity of Difenoconazole 250 SC and Narita against Alternaria sp. in potato. Report number: FE-18-A-DIF-NARITA-PL01 Laboratory: Field Research Support Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-61	Mateusz Cieśla	2018	Efficacy and selectivity of Difenoconazole 250 SC and Narita against Alternaria sp. in potato. Report number: FE-18-A-DIF-NARITA-PL02 Laboratory: Field Research Support Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-62	Anna Jarecka-Boncela	2018	Efficacy and selectivity of Difenoconazole 250 SC and Narita against Alternaria sp. in potato. Report number: FE-18-A-DIF-NARITA-PL03 Laboratory: Instytut Ogrodnictwa Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-63	Hubert Olejnik	2019	Efficacy and selectivity of difenoconazole against ALTESP in potato. Report number: FE-19-C-DifcorSC-PL06 Laboratory: Field Research Support Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.
KCP 6.2-64	Grzegorz Dąbrowski	2019	Efficacy and selectivity of difenoconazole against ALTESP in potato. Report number: FE-19-C-DifcorSC-PL07 Laboratory: SynTech Research Poland Sp. z o.o. Sponsor: Globachem NV GEP, not published	Y	N	Globachem N.V.

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

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

The following tables are to be completed by MS

List of data submitted by the applicant and not relied on

Data point	**Author(s)**	**Year**	**Title** **Company Report No.** **Source (where different from company)** **GLP or GEP status** **Published or not**	**Vertebrate study Y/N**	**Owner**
KCP XX	Author	YYYY	Title Company Report N Source GLP/non GLP/GEP/non GEP Published/Unpublished	Y/N	Owner

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

Data point	**Author(s)**	**Year**	**Title** **Company Report No.** **Source (where different from company)** **GLP or GEP status** **Published or not**	**Vertebrate study Y/N**	**Owner**
KCP XX	Author	YYYY	Title Company Report N Source GLP/non GLP/GEP/non GEP Published/Unpublished	Y/N	Owner

Ochrony Roślin przed Chorobami Roślin Warzywnych" Prośba Instytutu wynika ze zmian w strukturze organizacyjnej wprowadzonych Zarządzeniem Dyrektora Instytutu Ogrodnictwa Nr D-021-10/2017 z dnia 1 marca 2017 r.

Zespół Badawczy d/s Oceny Skuteczności Działania Środków Ochrony Roślin przed Chorobami Roślin Warzywnych w Zakładzie Fitopatologii Instytutu Ogrodnictwa spełnia wymagania dobrej praktyki doświadczalnej w rozumieniu art. 3 pkt 20 rozporządzenia Parlamentu Europejskiego i Rady (WE) Nr 1107/2009 z dnia 21 października 2009 r. dotyczącego wprowadzania do obrotu środków ochrony roślin i uchylającego dyrektywy Rady 79/117/EWG i 91/414/EWG (Dz.Urz. UE L 309 z 24.11.2009 str. 1 z późn. zm.), zapewniające prawidłowe przeprowadzanie badań skuteczności działania środka ochrony roślin.

Mając na uwadze powyższe, postanowiono jak w rozstrzygnięciu decyzji.

Pouczenie

Od niniejszej decyzji odwołanie nie przysługuje. Jednakże strona niezadowolona z decyzji może zwrócić się do Głównego Inspektora Ochrony Roślin i Nasiennictwa z wnioskiem o ponowne rozpatrzenie sprawy w terminie 14 dni od dnia doręczenia decyzji, zgodnie z art. 127 § 3 Kodeksu postępowania administracyjnego.