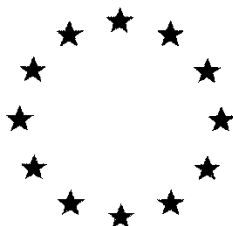


European Commission



**Combined Draft (Renewal) Assessment Report prepared according to
Regulation (EC) N° 1107/2009
and
Proposal for Harmonised Classification and Labelling (CLH Report)
according to Regulation (EC) N° 1272/2008**

GIBBERELLINS (GA4, GA7)

Volume 2

Rapporteur Member State: Slovenia
Co-Rapporteur Member State: Slovakia

Version History

When	What
2019/April	Initial DRAR

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A. LIST OF THE TESTS, STUDIES AND INFORMATION SUBMITTED

A.1. IDENTITY

References for the active substance:

None.

References for the plant protection product:

None.

A.2. PHYSICAL AND CHEMICAL PROPERTIES

References for the active substance:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 2.1/ 01, K CA 2.2/ 01, K CA 2.3/ 01, KCA 2.4/ 01, KCA 2.5/ 01, KCA 2.6/ 01, KCA 2.7/ 01, KCA 2.8/ 01, KCA 2.9/ 01, KCA 2.11/ 01, KCA 2.12, KCA 2.13/ 01	Comb, A. L.	1997	GA4/7 (99% technical): Determination of the Physico- Chemical Properties Report No. 96/FNA052/12 21 Huntingdon Life Sciences Ltd, Cambridgeshir e, UK, PE28 4HS. GLP Unpublished	N	N	-	Fine Agroch emical s Ltd.	In DAR: B.2.1.1 FA, B.2.1.3 FA, B.2.1.5 FA, B.2.1.6 FA, B.2.1.7 FA, B.2.1.8 FA, B.2.1.9 FA, B.2.1.10 FA, B.2.1.10 FAb, B.2.1.10 FAc, B.2.1.10 FAd, B.2.1.12 FA, B.2.1.13 FA, B.2.1.14 FA, B.2.1.18 FA, B.2.1.20 FA, B.2.1.21 FA, B.2.1.23 FA, B.2.1.24 FA, B.2.1.25 FA
KCA 2.1/ 02, KCA 2.2/ 03, KCA 2.5/ 03, KCA 2.7/ 02	Ville, C., Beltran, E., Adrian, P.	2005	QSAR (Quantitative Structure- Activity Relationship), Gibberellins GA4/7 Report No. None CEHTRA, Le Space C, 208- 212, route de Grenoble, 06200 Nice, France Non-GLP Unpublished	N	N	-	Globac hem	In DAR: B.2.1.1 GC, B.2.1.2 GC, B.2.1.5 GCb, B.2.1.5 GCc, B.2.1.12 GCb, B.2.1.14 GCb
KCA 2.1/ 03,	Rojas, F. G.	1996	Physical and Chemical	N	N	-	Valent BioSci	In DAR: B.2.1.1 VA,

KCA 2.3/ 04, KCA 2.4/ 06, KCA 2.5/ 04, KCA 2.6/ 03			Properties Characterisation of Gibberellin A4/A7 Code 2519, Technical Grade Active Ingredient Report No. 85- 2493-62 Abbott Laboratories, USA GLP Unpublished				ences	B.2.1.3 VA, B.2.1.7 VA, B.2.1.8 VA, B.2.1.9 VA, B.2.1.10 VA, B.2.1.12 VA, B.2.1.13 VA
KCA 2.2/ 02, KCA 2.5/ 02, KCA 2.6/ 02, KCA 2.8/ 02	-	2004	AgriTox Data Base – Gibberelline A4 A7	N	N	-	-	In DAR: B.2.1.5 GC, B.2.1.6 GC, B.2.1.12 GC, B.2.1.13 GC, B.2.1.18 GC
KCA 2.2/ 04	Purghart, V.	2000a	Gibberellin A4 / Gibberellin A7: Determination of the Vapour Pressure Report No. 1042.003.816 Springborn Laboratories (Europe) AG GLP Unpublished	N	N	-	Valent BioSciences	In DAR: B.2.1.5 VA
KCA 2.2/ 05	Curl, M. G	2005a	The Calculation of Henry's Law Constant for Gibberellin GA4A7 Report No. TSGE 22-1- 02.HLC TSGE Consulting, Concordia House, St. James Business Park, Grimbald Crag Court, Knaresborough , North Yorkshire, HG5 8QB	N	N	-	Valent BioSciences	In DAR: B.2.1.6 VA

			Non-GLP Unpublished					
KCA 2.3/ 02	-	2005	Material Safety Data Sheet, Gibberellin A4/A7 Globachem nv, Leeuwerweg 138, B-3803 Sint-Truiden, Belgium.	N	N	-	Globac hem	In DAR: B.2.1.7 GC, B.2.1.8 GC, B.2.1.9 GC
KCA 2.4/ 02	Herling, H.	2003	Gibberellin GA4/7-5 Batch Analysis Report No. SSL04403 Spectral Service, Köln, Germany. GLP Unpublished N.B. This study is <i>only</i> being used to address KCA 2.4/ 02. New 5 batch data have been provided. The study has been added to the confidential Doc K.	N	N	-	Globac hem	In DAR: B.2.1.10 GCb, B.2.1.10 GCd
KCA 2.4/ 03	Heiman, D. F.	2005a	Valent BioSciences Chemistry Report Mass Spectra of Gibberellins GA4A7. Report No. VCB-LG-C- 05-06-0008 Valent BioSciences Corporation Research Center, Long Grove, IL, USA. Not GLP Unpublished	N	N	-	Valent BioSci ences	In DAR: B.2.1.10 VAd
KCA 2.4/ 04	Heiman, D. F.	2005b	Valent Biosciences Chemistry Report Attenuated	N	N	-	Valent BioSci ences	In DAR: B.2.1.10 VAc

			Total Reflectance Fourier Transform Infrared Spectra of Gibberellins GA4A7. Report No. VCB-LG-C-05-06-0007 Valent BioSciences Corporation Research Centre, Long Grove, Illinois, USA. Not GLP Unpublished					
KCA 2.4/05	Heiman, D. F.	2005c	Valent Biosciences Chemistry Report Nuclear Magnetic Resonance Spectra of Gibberellins GA4A7. Report No. VCB-LG-C-05-06-0009 Valent BioSciences Corporation Research Centre, Long Grove, Illinois, USA. Not GLP Unpublished	N	N	-	Valent BioSciences	In DAR: B.2.1.10 VAb
KCA 2.5/05	Comb, A.L.	2008a	GA4/7 Water Solubility Report No. ZAB0086 Huntingdon Life Sciences Ltd, Cambridgeshire, UK, PE28 4HS. GLP Unpublished	N	Y	New study for the purposes of renewal	Valent Biosciences	-
KCA 2.6/04	Comb, A.L.	2008b	GA4/7 Solvent Solubility Report No.	N	Y	New study for the purposes of renewal	Valent Biosciences	-

			ZAB0090 Huntingdon Life Sciences Ltd, Cambridgeshire, UK, PE28 4HS. GLP Unpublished					
KCA 2.7/ 03	Purghart, V.	2000b	Gibberellin A4/A7: Determination of the Partition Coefficient (n- octanol/water) Report No. 1042.003.705 Springborn Laboratories (Europe) AG. GLP Unpublished	N	N	-	Valent BioSci ences	In DAR: B.2.1.14 VA
KCA 2.7/ 04	Comb, A.L.	2008c	GA4/7 Partition Coefficient Report No. ZAB0087 Huntingdon Life Sciences Ltd, Cambridgeshire, UK, PE28 4HS. GLP Unpublished	N	Y	New study for the purposes of renewal	Valent Biosci ences	-
KCA 2.8/ 03	Curl, M. G.	2005b	Computer Estimation of Dissociation Constant of Gibberellin GA4A7 Report No. TSGE 22-1- 02.PKA TSGE Consulting, Concordia House, St. James Business Park, Grimbald Crag Court, Knaresborough , North Yorkshire, HG5 8QB.	N	N	-	Valent BioSci ences	In DAR: B.2.1.18 VA

			Non-GLP Unpublished					
KCA 2.9/ 02 KCA 2.11/ 03 KCA 2.13/ 03	Young, S.	2000	Gibberellin A4/A7 Physicochemic al Properties Report No. VLT 013/004024 Huntingdon Life Sciences. GLP Unpublished	N	N	-	Valent BioSci ences	In DAR: B.2.1.20 VA B.2.1.23 VA B.2.1.25 VA
KCA 2.11/ 0 2 KCA 2.13/ 02	Lee, S.	2005	Determination of Storage Stability and Shelf Life Specification Data for Gibberellins GA4 and GA7 (a Soluble Concentrate Formulation) Stored for Specified Time Intervals and at Specified Temperatures in Compliance with Good Laboratory Practice Report No. OA00902. Oxford Analytical Ltd., Oxon, UK, report GLP Unpublished	N	Y	-	Globac hem	In DAR: B.2.1.23 GC B.2.1.25 GC

References for the plant protection product:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP	Comb, A. L.	1997	GA _{4/7} 10 g/l SL:	N	Y	-	Fine	In RR:

2.1/ 01, KCP 2.2/ 01, KCP 2.3, KCP 2.4/ 01, KCP 2.5/01, KCP 2.6/ 01, KCP 2.8.2/ 03, KCP 2.8.4/ 03			Determination of the Physico-Chemical Properties Report No. 96/FNA049/1102 Huntingdon Life Sciences Ltd, Eye, Suffolk, England, IP23 7PX. GLP Unpublished				Agrochemicals Ltd.	IIIA 2.2.1, IIIA 2.3.1, IIIA 2.3.3, IIIA 2.5.1, IIIA 2.5.3, IIIA 2.6.1 In DAR: B.2.2.1, B.2.2.2, B.2.2.3, B.2.2.4, B.2.2.6, B.2.2.8, B.2.2.9, B.2.2.10, B.2.2.11, B.2.2.12, B.2.2.13, B.2.2.19, B.2.2.22
KCP 2.1/ 02, KCP 2.4/ 02, KCP 2.7/ 01, KCP 2.8.2/ 01, KCP 2.8.4/ 01	Knowles, R.J.	2010	Accelerated Storage Stability Study on Novagib Formulation Report No. J17999 G C Laboratories Ltd., Analytical Chemistry Centre, 6 Fen End, Astwick Road, Stotfold, Hitchin, SG5 4BA. GLP Unpublished	N	Y	-	Fine Agrochemicals Ltd.	In RR: IIIA 2.1, IIIA 2.4.1, IIIA 2.4.2, IIIA 2.7.1, IIIA 2.8.2, IIIA 2.8.4
KCP 2.1/ 03, KCP 2.7/ 02, KCP 2.8.2/ 02, KCP 2.8.4/ 02	Kelly, K.	2012	2 Years at Ambient Storage Stability Study on Novagib Formulation Report No. J 18000 G C Laboratories Ltd., Analytical Chemistry Centre, 6 Fen End, Astwick Road, Stotfold, Hitchin, SG5 4BA. GLP Unpublished	N	Y	-	Fine Agrochemicals Ltd.	In RR: IIIA 2.7.5
KCP 2.2/ 02	Mak, W.A.	2004	Oxidising Properties of Novagib Report No. PML	N	Y	-	Fine Agrochemicals Ltd.	In RR: IIIA 2.2.2

			2004-C99 TNO Prins Maurits Laboratory, Lange Kleiweg 137, The Netherlands. GLP Unpublished					
KCP 2.5/ 02, 2.6/ 02	Clapperton, R.	2017	The Viscosity of Novagib 10g/L SL at 40 °C Report No. BH/18/003/1 Battelle UK Ltd, Hampshire, UK, PO9 1SA. GLP Unpublished	N	Y	New study for the purposes of renewal	Fine Agrochemicals Ltd.	-

A.3. DATA ON APPLICATION AND EFFICACY**References for the active substance: Gibberellins**

No study submitted.

References for the plant protection product: Novagib

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.3.9.	anonym	2005	Result of the trial with plant strengtheners on fruit trees 2004. No. 04905W57001/02/03/04 GEF, unpublished	N	N	N	Globoc hem	IIA, 3.4/04 in original DAR

A.4. FURTHER INFORMATION

References for the active substance:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
B.4.1 B.4.2 B.4.3	-	2017	Safety Data Sheet – Gibberellins GA4/7 Revision: 7 Jun 2017	N	N	N	Fine Agrochemicals	N

References for the plant protection product:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
none								

A.5. METHODS OF ANALYSIS



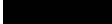

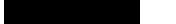

References for the active substance:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 4.1.1/01	Parsons, A.H.	2006	Validation of G C Laboratories Ltd. Analytical Method M564 “HPLC Determination of Gibberellins GA4 and GA7 in Technical Material and Formulations” for Gibberellin GA4 in GA4 Technical Material and the ‘Novagib’ Formulation G C Laboratories Ltd., 6 Fen End, Astwick Road, Stotfold, Hitchin, SG5 4BA GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agrochemicals Ltd.	-
KCA 4.1.1/02	Knowles, R.J.	2009	Validation of G C Laboratories Ltd. Analytical Method M564 “HPLC Determination of Gibberellins GA4 and GA7 in Technical Materials and Formulations” Validation for GA7 in GA4/GA7 Technical Gibberellin G C Laboratories Ltd., 6 Fen	N	Y	New study submitted for the purpose of renewal	Fine Agrochemicals Ltd.	-

			End, Astwick Road, Stotfold, Hitchin, SG5 4BA, UK GLP Unpublished					
KCA 4.1.1/03	Comb, T.	2018	GA4/7: Method Validation AgroChemex Environmental Ltd., Dead Lane, Essex, CO11 2NF, UK GLP Unpublished N.B. This study has been added to the confidential Doc K	N	Y	New study submitted for the purpose of renewal	Valent BioSciences	-
KCA 4.1.2/01	Traub, M.	2014	Gibberellins GA4, GA7: Aerobic Degradation in Four European Soils Report No. S14-01454 Eurofins Agrosience Services, Germany GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Globac hem	-
KCA 4.1.2/02	Harrison, C.	2005a	VBC 30011: Residue Levels in Apples and Pears from Trials Carried Out in Northern France, Southern France, Italy and Northern Spain During 2002 Report No. AF/6256/VB Agrisearch UK, Ltd GLP Unpublished	N	Y	-	Valent BioSciences	In DAR: IIA 6.3.1/01
KCA 4.1.2/03	Harrison, C.	2005b	VBC 30011: Residue Levels in Apples and	N	Y	-	Valent BioSciences	In DAR: IIA 6.3.1/02

			Pears from Trials Carried Out in Northern France, Southern France, Italy and Northern Spain During 2003 Report No. AF/6989/VB Agriseach UK, Ltd GLP Unpublished					
KCA 4.1.2/04	Harrison, C.	2010	To Determine the Stability of gibberellin A4 (GA4) and Gibberellin A7 (GA7) in Pome Fruit Apple Specimens Following Storage at ca - 18°C for 0, 1, 3, 12, 18 and 30 Months Report No. AD/6258/VB EUROFINS Agrosience services, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Valent BioSciences	-
KCA 4.1.2/05	Stephan, M., Bangerth, F. and Schneider, G.	1999	Quantification of Endogenous Gibberellins in Exudates from Fruit From <i>Malus Domestica</i> <i>J. Plant Growth Regul.</i> , 1999, 28 : 55. Non GLP Published	N	N	-	Published paper	In DAR: IIA 6.2.1/02
KCA 4.1.2/06	Zhang, C., Tateishi, N. and Tananbe, K.	2010	Pollen Density on the Stigma Affects Endogenous Gibberellin Metabolism, Seed and Fruit Set, and Fruit Quality in	N	N	-	Published paper	-

			<i>Pyrus Pyrifolia.</i> <i>J. Exp. Bot.</i> , 2010, 61 , 15, 4291. Non GLP Published					
KCA 4.1.2/07	Jean- Baptiste, C.	2011	Frozen Storage Stability of Residues of Gibberellic Acid, Gibberellin A4 and Gibberellin A7 in Pears Study No. A9206 ANADIAG, 16, rue Ampère, 67500 Haguenau, France GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Globac hem	-
KCA 4.1.2/08	Jean- Baptiste, C.	2009	Validation of the Analytical Methods for the Determination of Gibberellic Acid, Gibberellin A4 and Gibberellin A7 Residues in Pears Study No. R A9006 ANADIAG, 16, rue Ampère, 67500 Haguenau, France GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Globac hem	-
KCA 4.1.2/09	Juckeland, D.	2014	Toxicity of Gibberellins (GA4/7) Technical to <i>Daphnia</i> <i>Magna</i> in a 21- Day Semi- Static Reproduction Test Report No. 14 10 48 073 W BioChem	N	Y	New study submitted for the purpose of renewal	Globac hem	-

			agrar, Gerichshain, Germany GLP Unpublished					
KCA 4.1.2/10		2016	Gibberellic Acid (GA3): An Early Life- Stage Toxicity Test with the Fathead Minnow (<i>Pimephales Promelas</i>) Report      GLP Unpublished	Y	Y	New study submitted for the purpose of renewal	Valent BioSci ences	-
KCA 4.1.2/11	Taylor, K.	2017	Gibberellins A4A7: Honey Bee (<i>Apis Mellifera</i>) Larval Toxicity Test, Single Exposure Report No. CR15QN Envigo CRS limited, Huntingdon, Cambridgeshir e, UK, PE28 4HS GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Valent BioSci ences	-
KCA 4.1.2/12	Gray, J.	2017	Gibberellins A4A7: Honey Bees (<i>Apis Mellifera</i> L.) Chronic Oral Toxicity Test 10 Day Feeding in the Laboratory Report No. FR30QH Envigo CRS limited, Huntingdon, Cambridgeshir e, UK, PE28 4HS	N	Y	New study submitted for the purpose of renewal	Valent BioSci ences	-

			GLP Unpublished					
KCA 4.1.2/13	Mantilacci, S.	2017	Toxicity Evaluation of Test Item Gibberellins GA4/7 Technical on Navicula Pelliculosa in a Growth Inhibition Limit Test and Validation of the Analytical Method Report No. BT264/17 BioTecnologie B.T. Srl, 06059 Todi (PG), Italy GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd.	-
KCA 4.1.2/14	Stead, A.	2018	Gibberellins A4A7: GLP Seedling Emergence and Seedling Growth Test Terrestrial Non-Target Plants (Based on OECD Guideline 208) - 2017 Report No. STC/17/E1126 Stockbridge Technology Centre Ltd, Norht Yorkshire, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Valent BioSci ences	-
KCA 4.1.2/15	Turner, B.	2018	Analysis of Gibberellins A4A7 Spray Solution Report No. STC/17/E1126 Stockbridge Technology Centre Ltd, Norht Yorkshire, UK GLP	N	Y	New study submitted for the purpose of renewal	Valent BioSci ences	-

			Unpublished					
KCA 4.2/01	Gian Carlo, G.	1995	Determination of Gibberellins A4-A7 Residues on Apple and Pear Report No. NEOT/GLP/L N52A-95 Neotron S.r.l., Via Puccini 185, 41058 Vignola GLP Unpublished	N	Y	-	Valent BioSci ences	In DAR: IIA 4.3.1/01
KCA 4.2/02	Mol, J.G.J.	2001	Site Validation of the GA4/GA7 Residue Method in Apple and Pear Report No. V99.1181 TNO Nutrition and Food Research, The Netherlands GLP Unpublished	N	Y	-	Valent BioSci ences	In DAR: IIA 4.3.1/02
KCA 4.2/03	Brewin, S.	2017	GA4A7: Validation of Methodology for the Determination of Residues of in Soil Study No. YR93VB Envigo CRS Limited, Eye, Suffolk, IP23 7PX, UK GLP Unpublished	N	Y	-	Valent BioSci ences	-
KCA 4.2/04	de Wolf, J.M.	2001	Validation of the Determination of Gibberellin A4 and A7 (GA4/GA7) in Drinking Water Using LC-MS Report No. V3044 TNO Nutrition	N	Y	-	Valent BioSci ences	In DAR: IIA 4.5/01

			and Food Research, Utrechtseweg 48, The Netherlands GLP Unpublished					
KCA 4.2/05	Kruplak, J.F.	2004	Validation of a Method for the Determination of Gibberellin A4 and A7 (GA4/GA7) in Surface Water Report No. ADC 1880-1 Analytical Development Corporation (ADC), Colorado Springs, CO 80907 GLP Unpublished	N	Y	-	Valent BioSci ences	In DAR: IIA 4.5/02
KCA 4.2/06	Warnick, J.	2017	Independent Laboratory Validation (ILV) of the Determination of Gibberellin A4 and A7 (GA4GA7) in Drinking Water Using Liquid Chromatograph y-Tandem Mass Spectrometry Report No. 605G1561 EPL Bio Analytical Services (EPL), 9095 W. Harristown Blvd., IL 62551, USA GLP Unpublished	N	Y	New study for the purposes of renewal	GA4/7 Task Force	-

References for the plant protection product:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCP 5.1.1/01	Parsons, A.H.	2006	HPLC Determination of Gibberellins GA4 and GA7 in Technical Material and Formulation Report No. J 15061 G C Laboratories Ltd., Analytical Chemistry Centre, Stotfold, Hitchin, UK GLP Unpublished	N	Y	-	Fine Agroch emical s Ltd.	In RR: KIIIA1 5.2.1/01
KCP 5.1.1/02	Knowles, R.J.	2010	Validation of GC Laboratories Ltd Method M652/A “HPLC Determination of Impurities in Technical Gibberellin GA4/GA7 and Determination of GA7 in Technical Gibberellin GA4/GA7 and Formulations” for the Determination of GA7 in the Novagib Formulation Report No. J17950 G C Laboratories Ltd., Analytical Chemistry Centre,	N	Y	-	Fine Agroch emical s Ltd.	In RR: KIIIA1 5.2.1/02

			Stotfold, Hitchin GLP Unpublished					
CP 5.1.2/01	██████ ██ █████ ██████ ██████	2010a	Novagib: Acute Toxicity Study To Rainbow Trout (<i>Oncorhynchus mykiss</i>) Report █████ ██████ ██████ ██████████ ████ GLP Unpublished	Y	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd.	-
CP 5.1.2/02	Goodband, T.J. and Mullee, D.M.	2010b	Novagib: Acute Toxicity Study To <i>Daphnia Magna</i> Report No. 0673/0014 Harlan Laboratories Ltd., Shardlow, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd.	-
CP 5.1.2/03	Vryenhoef, H. and Mullee, D.M.	2010	Novagib: Algal Growth Inhibition Test Report No. 0673/0015 Harlan Laboratories Ltd., Shardlow, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd.	-
CP 5.1.2/04	Scheerbau m, D.	2012	Novagib: Aquatic Plant Toxicity Test, <i>Lemna Minor</i> , Limit-Test, Semi-Static, 7 Days Report No. 120508FM/ SLM15085 Dr. U. Noack- Laboratorien, Sarstedt, Germany	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd.	-

			GLP Unpublished					
CP 5.1.2/05	Hermes, H. and Wydra, V.	2014	Toxicity of Novagib to the Aquatic Plant <i>Myriophyllum Spicatum</i> in a Static Growth Inhibition Limit Test with a Prior Rooting Phase Report No. 90251215 IBACON GmbH, Rossdorf, Germany GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd.	-

A.6. TOXICOLOGY AND METABOLISM DATA

References for the active substance:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 5.1.1/01	■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■	2000	Absorption, Distribution, Metabolism and Excretion of [14C]- gibberellins GA4GA7 in rats Report No. ■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■ GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.1.1-1 IIA 5.1.1/01
KCA 5.2.1/01	■■■■■ ■■■■■	1997a	GA4/7 99% technical: Acute oral toxicity to the rat Report No. ■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■ ■■■■■ GLP Unpublished	Y	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.2.1.1 IIA 5.2

KCA 5.2.1/02	████ ██	1988a	Acute oral toxicity study of Gibberellins A4A7 (GA4A7) in rats Report No. ██████████ ██████ ██████████ ██████ ███ ██ ████████ ██████████ ██████ ██████████ █████ GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.2.1.1 IIA 5.2.1/01
KCA 5.2.2/01	████ ██	1997b	GA4/7 99% technical: Acute dermal toxicity to the rat Report No. ████ ██████████ ██████████ ██ ████████ ██████████ ██████████ ██████████ █ █████ ███ ██████ GLP Unpublished	Y	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.2.1.2 IIA 5.2
KCA 5.2.2/02	████ ██	1988b	Acute dermal toxicity study of Gibberellins A4A7 (GA4A7) in rats Report No. ██████████ ██████ ██████████ ██████ ███ ██ ████████ ██████████ ██████	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.2.1.2 IIA 5.2.2/01

			GLP Unpublished					
KCA 5.2.3/01		1997	Acute inhalation toxicity to rats of GA4/7 99% technical Report No. GLP Unpublished	Y	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.2.1.3 IIA 5.2
KCA 5.2.3/02		1988	Acute inhalation toxicity study with gibberellins A4A7 (GA4A7) in the rat Report No. GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.2.1.3 IIA 5.2.3/01
KCA 5.2.4/01		1997a	GA4/7 99% technical: Skin irritation to the rabbit Report No. GLP Unpublished	Y	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.2.1.4 IIA 5.2

			<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>GLP</p> <p>Unpublished</p>					
KCA 5.2.4/02	[REDACTED]	1988c	<p>Primary dermal irritation study of Gibberellins A4A7 (GA4A7) in rabbits Report No.</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>GLP</p> <p>Unpublished</p>	Y	N	-	Valent BioSciences	<p>In DAR (2011) B.6.2.1.4</p> <p>IIA 5.2.4/01</p>
KCA 5.2.5/01	[REDACTED]	1997a	<p>GA4/7 99% technical: Eye irritation to the rabbit Report No. FNA</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>GLP</p> <p>Unpublished</p>	Y	N	-	Fine Agrochemicals Ltd	<p>In DAR (2011) B.6.2.1.5</p> <p>IIA 5.2</p>
KCA 5.2.5/02	[REDACTED]	1988d	<p>Primary eye irritation study of Gibberellins A4A7 (GA4A7) in rabbits</p>	Y	N	-	Valent BioSciences	<p>In DAR (2011) B.6.2.1.5</p> <p>IIA 5.2.5/01</p>

			Report No. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP Unpublished					
KCA 5.2.6/01	[REDACTED] [REDACTED]	1997	GA4/7 99% technical: Skin sensitisation in the guinea pig Report No. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP Unpublished	Y	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.2.1.6 IIA 5.2
KCA 5.2.6/02	[REDACTED] [REDACTED]	1988e	Dermal sensitization study of Gibberellins A4A7 (GA4A7) in guinea pigs (Maximization test) Report No. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.2.1.6 IIA 5.2.6/01

KCA 5.2.6/03	██████	1994	Gibberellin A4/A7: Skin sensitization to the guinea pig Report No. ██████ ██████ ██████ ██████ ██████ ██████ GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.2.1.6 IIA 5.2.6/02
KCA 5.2.7/01	Gerbeix, C.	2018	Gibberellic Acid A4/A7: 3T3 NRU Phototoxicity Test Report No. 45159 TIP CiToxLAB France, BP 563, 27005 Evreux, France GLP Unpublished	N	Y	New study for the purposes of renewal	GA4A 7 Task Force	-
KCA 5.3.2/01	██████ ██	1990	13-Week Dietary Toxicity Study with Gibberellins A4/A7 in Rats Report No. ██████ ██████ ██████ ██████ ██████ ██████ ██████ ██████ GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.3.1.2 IIA 5.3.2/01
KCA 5.3.2/02	██████ █ ██ ██████ █	2001	ABG-3192 13- Week Oral (Capsule)	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.3.1.2

			Toxicity Study in Dogs Report No. ██████ ██████ ██████ ██████ ██████████ ██████████ GLP Unpublished					IIA 5.3.3/01
KCA 5.4.1/01	May, K.	1997	GA4/7: Bacterial mutation assay Report No. 96/FNA024/09 35 Huntingdon Life Sciences Ltd., Eye, Suffolk, IP23 7PX, England GLP Unpublished	N	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.4.1.1 IIA 5.4
KCA 5.4.1/02	Lawlor, T.E.	1988	Salmonella/ma mmalian- microsome plate incorporation mutagenicity assay (Ames test) with a confirmatory assay Report No. T8201.501014 Microbiologica l Associates, Inc., 9900 Blackwell Road, Rockville, MD 20850 GLP Unpublished	N	N	-	Valent BioSci ences	In DAR (2011) B.6.4.1.1 IIA 5.4.1/01
KCA 5.4.1/03	Kitching, J.D.	1997	GA4/7 Metaphase chromosome analysis of	N	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.4.1.2

			human lymphocytes cultured in vitro Report No. FNA 25/962243 Huntingdon Life Sciences Ltd., P.O. Box 2, Huntingdon, Cambridgeshire, PE18 6ES, England GLP Unpublished					IIA 5.4
KCA 5.4.1/04	Murli, H.	1994	Mutagenicity test on gibberellic acid A4A7 measuring chromosomal aberrations in Chinese hamster ovary (CHO) cells with and without metabolic activation with a confirmatory assay with multiple harvests Report No. 15393-0-437Z Hazleton Washington, Inc., 9200 Leesburg Pike, Vienna, Virginia 22182 GLP Unpublished	N	N	-	Valent BioSciences	In DAR (2011) B.6.4.1.2 IIA 5.4.2/01
KCA 5.4.1/05	Lloyd, J.M.	1997	GA4/7: Mammalian cell mutation assay	N	N	-	Fine Agrochemicals Ltd	In DAR (2011) B.6.4.1.3 IIA 5.4

			Report No. 96/FNA026/09 44 Huntingdon Life Sciences Ltd., Eye, Suffolk, IP23 7PX, England GLP Unpublished					
KCA 5.4.1/06	Cifone, M.A.	1994	Mutagenicity Test on Gibberellic Acid A4A7 in the L5178Y TK+/- Mouse Lymphoma Forward Mutation Assay with an Independent Repeat Report No. HWA 15693-0- 431 Hazleton Washington, Inc., 9200 Leesburg Pike, Vienna, Virginia 22182 GLP Unpublished	N	N	-	Valent BioSci ences	In DAR (2011) B.6.4.1.3 IIA 5.4.3/01
KCA 5.4.1/07	Curren, R.D.	1988	Unscheduled DNA Synthesis Assay in Rat Primary Hepatocytes with a Confirmatory Assay Report No. T8201.380009 Microbiologica l Associates, Inc., 9900 Blackwell Road, Rockville,	N	N	-	Valent BioSci ences	In DAR (2011) B.6.4.1.4 IIA 5.4.5/01

			Maryland 20850 GLP Unpublished					
KCA 5.4.2/01	██████ ██████	1998	GA4/7 Mouse Micronucleus Test Report No. ██████████ █ ██████████ ██████ ████████ ██████ █████ ██████████ GLP Unpublished	Y	N	-	Fine Agroch emical s Ltd	In DAR (2011) B.6.4.1.4 IIA 5.4
KCA 5.4.2/02	██████ ██████	1988	Micronucleus Cytogenic Assay in Mice Report No. ██████████ ██████████ █ ██████████ ██████ █████ ██████ █████ ██████████ ██████████ ██████ GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.4.1.4 IIA 5.4.4/01
KCA 5.6.1/01	██████ ██████	2001	A Dietary Two- Generation Reproductive Toxicity Study of Gibberellin (GA4A7) in Rats Report No. ██████████ ██████ ██████████ ██████████ ██████ █████ ██████ █████ ██████████ █████ ██████████ GLP Unpublished	Y	N	-	Valent BioSci ences	In DAR (2011) B.6.6.1 IIA 5.6.1/01

KCA 5.6.2/01	████████ ████	1989	Teratology study with gibberellins A4A7 (GA4A7) in rabbits Report No. ██████████ ████████ ████████ ████████ ████████ ████████ ████████ ████████ ████████ GLP Unpublished	Y	N	-	Valent BioSciences	In DAR (2011) B.6.6.3 IIA 5.6.11/01
KCA 5.8.3	Saito, K.	2008	Reporter gene assays for gibberellic acid (GA3) using human estrogen and androgen receptors Report No. TLT-0106 Environmental Health Science Laboratory, Sumitomo Chemical Co., Ltd, 1-98, 3-Chome, Kasugade-Naka, Konohana-Ku, Osaka, Japan Non-GLP Unpublished	N	N	-	GA4/7 Task Force	N

References for the plant protection product:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company)	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
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			GLP or GEP status Published or not					
KCP 7.1.1/01	■■■■■ ■■■	1997	GA4/7 10 g/L Formulation Acute oral toxicity study to the rat Report No. ■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■ ■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■ ■■■■ ■■■ ■■■■■ GLP Unpublished	Y	N		Fine Agroch emi cals Ltd	In DAR (2011) B.6.11 IIIA 7.1
KCP 7.1.2/01	■■■■■ ■■■	1997a	GA4/7 10 g/L Formulation Acute dermal toxicity to the rat Report No. ■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■ ■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■ ■■■■ ■■■ ■■■■■ GLP Unpublished	Y	N		Fine Agroch emi cals Ltd	In DAR (2011) B.6.11 IIIA 7.1
KCP 7.1.3/01	■■■■■ ■■■	1997	Acute inhalation toxicity to rats of GA4/7 10 g/L Formulation Report No. ■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■ ■■■■■ ■■■■■■■■■■ ■■■■■■■■■■ ■■■■■■■■■■	■	N		Fine Agroch emi cals Ltd	In DAR (2011) B.6.11 IIIA 7.1

			e, PE18 6ES, England GLP Unpublished					
KCP 7.1.4/01	██████ ██████	1997	GA4/7 10 g/L Formulation Skin irritation to the rabbit Report No. ██████ ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ ██████ GLP Unpublished	Y	N		Fine Agroch emi cals Ltd	In DAR (2011) B.6.11 IIIA 7.1
KCP 7.1.5/01	██████████	1997	GA4/7 10 g/L Formulation Eye irritation to the rabbit Report No. ██████ ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ ██████ GLP Unpublished	Y	N		Fine Agroch emi cals Ltd	In DAR (2011) B.6.11 IIIA 7.1
KCP 7.1.6/01	██████████ ██████	1997b	GA4/7 10 g/L Formulation Skin sensitisation in the guinea-pig Report No. ██████ ██████████ ██████████ ██████████ ██████████ ██████████ ██████████ ██████ GLP Unpublished	Y	N		Fine Agroch emi cals Ltd	In DAR (2011) B.6.11 IIIA 7.1

A.7. RESIDUE DATA**References for the active substance:**

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 6.2.1/01	Goodyear A.	2005	The Metabolism of Gibberellins GA ₄ /A ₇ in Plants. TSGE, Knaresboroug, UK 22-1-02.PMET Non GLP Un published	N	N	-	-	II A 6.2.1/01 in original DAR
CA 6.3.1/01 and CA 6.3.3/01	Harrison C., Oxspring S.	2005a	VBC 30011: Residue levels in apples and pears from trials carried out in Northern France, Southern France, Italy and Northern Spain during 2002. Agrisearch UK, Ltd Report No: AF/6256/VB GLP Unpublished	N	N	-	VBC	II A 6.3.1/01 in original DAR
CA 6.3.1/02 and CA 6.3.3/02	Harrison C., Oxspring S.	2005b	VBC 30011: Residue levels in apples and pears from trials carried out in Northern France, Southern France, Italy and Northern Spain during 2003.	N	N	-	VBC	II A 6.3.1/02 in original DAR

			<p>Agrisearch UK, Ltd</p> <p>Report No: AF/6989/VB</p> <p>GLP</p> <p>Unpublished</p>					
CA 6.1.1/02	Harrison C.	2010	<p>To determine the stability of gibberellin A₄ (GA₄) and gibberellin A₇ (GA₇) in pome fruit apple specimens following storage at ca - 18°C for 0, 1, 3, 12, 18 and 30 months.</p> <p>EUROFINS Agrosience services, UK</p> <p>Report No: AD/6258/VB</p> <p>GLP</p> <p>Unpublished</p>	N	Y	New study submitted for the purpose of renewal	VBC	-
CA 6.3.2/01, CA 6.3.4	Hedden P.	2003	<p>Regulators of Growth: Gibberellins.</p> <p>In Encyclopaedia of Applied Plant Sciences (Thomas, B., Murphy D.J., Murray B.G., eds) pp. 1011-1019, Academic Press.</p> <p>Non GLP</p> <p>Published</p>	N	N	-	Published data	IIA 8.0 in original DAR
CA 6.1.1/01	Jean-Baptiste C.	2011	<p>Frozen Storage Stability of Residues of Gibberellic acid, Gibberellin A₄ and Gibberellin A₇ in Pears.</p> <p>ANADIAG, France</p> <p>Report No: R A9206</p> <p>GLP</p>	N	Y	New study submitted for the purpose of renewal	GC	-

			Unpublished					
CA 6.3.2/02 CA 6.3.4	MacMillan J.	2002	Occurrence of Gibberellins in Vascular Plants, Fungi and Bacteria. IACR Long Ashton Research Station, Department of Agricultural Sciences, University of Bristol, Long Ashton, Bristol, BS41 9AF. Non GLP Published	N	N	-	Publish ed data	IIA 1.0 in original DAR

CA 6.3.2/03	Stephan M., Bangerth F., Schneider G.	1999	Quantification of endogenous gibberellins in exudates from fruit from <i>Malus domestica</i> . J. Plant Growth Regulation 28: 55-58, 1999 Non GLP Published	N	N	-	Publish ed data	IIA 6.2.1/02 in original DAR
CA 6.7.1/01	Wang Q., Cai W.J., Yu L., Ding J., Feng Y.Q.	2017	Comprehensive Profiling of Phytohormones in Honey by Sequential Liquid–Liquid Extraction Coupled with Liquid Chromatograph y–Mass Spectrometry. J Agric. and Food Chemistry, 65,575-585, 2017 Non GLP Published	N	N	-	Publish ed data	
CA 6.3.4/01	Zhang C., Tateishi N., Tananbe K.	2010	Pollen density on the stigma affects endogenous gibberellin metabolism, seed and fruit set, and fruit quality in <i>Pyrus pyrifolia</i> . J. of Experimental Botany, Vol 61. No. 15 4291- 4302, 2010. Non GLP Published	N	N	-	Publish ed data	

References for the plant protection product:

No evaluation is necessary for PPP. The data for active substance apply for PPPs as well.

A.8. ENVIRONMENTAL FATE AND BEHAVIOUR

References for the active substance:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
KCA 7.1.1.1/01	Hurst, L.	2014	[¹⁴ C]-GA4 and [¹⁴ C]-GA7: Aerobic Soil Metabolism and Transformation . Smithers Viscient (ESG) Ltd., Study No. 3200135. GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agrochemicals and VBC	In product RR
KCA 7.1.2.1.1/01	Traub, M.	2014	Gibberellins GA4, GA7: Aerobic degradation in four European soils. Eurofins Agrosience Services, Study code S14-01454. GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Globac hem NV	-
KCA 7.1.3.1.1/01	Hurst, L.	2013	[¹⁴ C]-GA4 and [¹⁴ C]-GA7: Adsorption/Desorption in soil. Smithers Viscient (ESG) Ltd., UK, study no. 3200134. GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agrochemicals and VBC	-

KCA 7.2.1.1/0 1	Van der Kolk, J.	2000	Gibberellin A4/A7: Determination of the Hydrolysis as a Function of pH. Springborn Laboratories (Europe) AG, Report no. 1042.003.715. GLP Unpublished	N	N	-	VBC	In DAR B.8.4.1
KCA 7.2.1.2/0 1	McLaughlin, S.P.	2003	Gibberellins A4 and A7 Combined - Photodegradation in Water and Experimental Screening Test Based on the OECD Direct Photolysis Draft Guideline, Tier II. Springborn Smithers Report No. 12709.6214. GLP Unpublished	N	N	-	VBC	In DAR B.8.4.2
KCA 7.2.2.1/0 1	Barnes, S.P.	2005	Gibberellins A4 and A7 (Technical Grade) Assessment of Ready Biodegradability - Modified Sturm Test. Huntingdon Life Sciences Laboratory report no. ZAB 049/043181. GLP Unpublished	N	N	-	VBC	In DAR B.8.4.3.1

KCA 7.2.2.1/0 2	Drake, R.M.	2009	An evaluation of the ready biodegradability of GA4/7 Technical using the OECD 301B CO ₂ evolution test (Modified Sturm Test). Chemex Environmental International Ltd., ref ENV8775/070 905. GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Globac hem NV	-
KCA 7.2.2.2/0 1	Lamond, P.	2017	[¹⁴ C]Gibberellin acid: Aerobic mineralisation in surface water. Smithers Viscient (ESG) Ltd., Study No. 3201604. GLP Unpublished	N	Y	New study submitted for the purpose of renewal	EGAT F II	-
KCA 7.2.2.3/0 1	Cooper, T.	2017	[¹⁴ C]Gibberellin acid: Degradation in water-sediment systems under aerobic conditions. Smithers Viscient (ESG) Ltd., Study No. 3201605. GLP Unpublished	N	Y	New study submitted for the purpose of renewal	EGAT F II	-

References for the plant protection product:

By applicant, PEC Soil, PEC Ground water, PEC SURFACE WATER/WATER SEDIMENT calculations were presented and they were considered acceptable. Applicant determined no author of these calculations.

A.9. ECOTOXICOLOGY DATA

References for the active substance:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CA 8.1.1.1/0 1	[REDACTED]	1996	Falgro Technical: An acute oral toxicity study with the Northern Bobwhite Report No. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP Unpublished	Y	N	-	Fine Agroch emical s Ltd	In DAR II A 8.1.1/01
CA 8.1.1.1/0 2	US-EPA	1995	Reregistration Eligibility Decision (R.E.D), Gibberellic acid Report N°: EPA-738-96- 005.	Y	N	-	n.a.	In DAR II A 8.1.1/02
CA 8.1.1.1/0 3	[REDACTED]	1991	Gibberellic acid Acute Oral Toxicity (LD ₅₀) to Mallard Duck. [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP, unpublished.	Y	N	-	Valent Bioscie nces	In DAR II A 8.1.1/02
CA 8.1.1.2/0 1	[REDACTED]	1996	Falgro Technical: A dietary LC ₅₀ study with the Northern Bobwhite Report No. [REDACTED]	Y	N	-	Fine Agroch emical s Ltd	In DAR II A 8.1.2/01

			<p>GLP Unpublished</p>					
CA 8.2.1/01		2004a	<p>Gibberellins A₄ & A₇ – Acute toxicity to rainbow trout (<i>Oncorhynchus mykiss</i>) under static-renewal conditions Report No. GLP Unpublished</p>	Y	N	-	VBC	In DAR II A 8.2.1/01
CA 8.2.2.1/01		2016	<p>Gibberellic acid (GA3): An early life-stage toxicity test with the Fathead Minnow (<i>Pimephales promelas</i>) Report No. GLP Unpublished</p>	Y	Y	New study submitted for the purpose of renewal	VBC	N
CA 8.2.4.1/01	Sayers, L.E.	2004b	<p>Gibberellins A₄ & A₇ – Acute toxicity to water fleas (<i>Daphnia magna</i>) under static conditions Report No. 13828.6102 Springborn Smithers Laboratories, Wareham, USA GLP Unpublished</p>	N	N	-	VBC	In DAR II A 8.2.4/01

CA 8.2.5.1/0 1	Juckeland, D.	2014	Toxicity of gibberellins (GA4/7) technical to <i>Daphnia</i> <i>magna</i> in a 21- day semi-static reproduction test Report No. 14 10 48 073 W BioChem agrar, Gerichshain, Germany GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Globac hem	N
CA 8.2.6.1/0 1a	Gries, T.	2000	Gibberellins A4 + A7 – Static toxicity test with the freshwater algae <i>Pseudokirchne</i> <i>riella</i> <i>subcapitata</i> Report No. 1042.004.430 Springborn Laboratories (Europe) AG, Horn, Switzerland GLP Unpublished	N	N	-	VBC	In DAR II A 8.2.6/01
CA 8.2.6.1/0 1b	Collison, E.	2017	Re-assessment of validity of Gries (2000): Gibberellins A4 + A7 – Static toxicity test with the freshwater algae <i>Pseudokirchne</i> <i>riella</i> <i>subcapitata</i> ; Report No. 1042.004.430. Springborn Laboratories (Europe) AG, Horn, Switzerland [KCA 8.2.6.1/01] Non-GLP Unpublished	N	Y	New study submitted for the purpose of renewal	GA4/7 TF	N

CA 8.2.6.2/0 1	Mantilacci, S.	2017	Toxicity evaluation of test item Gibberellins GA4/7 Technical on <i>Navicula pelliculosa</i> in a growth inhibition limit test and validation of the analytical method Report No. BT264/17 BioTecnologie B.T. Srl, Italy GLP Unpublished	N	Y	New study submitted for the purpose of renewal	GA4/7 TF	N
CA 8.3.1.1/0 1	Hoberg, J.R.	2004a	Gibberellins A4 & A7 – Acute oral toxicity test with the honey bee (<i>Apis mellifera</i>) Report No. 13828.6103 Springborn Smithers Laboratories, Wareham, USA GLP Unpublished	N	N	-	VBC	In DAR II A 8.3.1.1/01
CA 8.3.1.1/0 2	Hoberg, J.R.	2004b	Gibberellins A4 & A7 – Acute contact toxicity test with the honey bee (<i>Apis mellifera</i>) Report No. 13828.6104 Springborn Smithers Laboratories, Wareham, USA GLP Unpublished	N	N	-	VBC	In DAR II A 8.3.1.1/02

CA 8.3.1.2/0 1	Gray, J.	2017	Gibberellins A ₄ A ₇ : Honey bees (<i>Apis mellifera</i> L.) chronic oral toxicity test 10 day feeding in the laboratory Report No. FR30QH Envigo CRS Ltd., Huntingdon, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	GA4/7 TF	N
CA 8.3.1.3/0 1	Taylor, K.	2017	Gibberellins A ₄ A ₇ : Honey bee (<i>Apis mellifera</i>) larval toxicity test, single exposure Report No. CR15QN Envigo CRS Ltd., Huntingdon, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	GA4/7 TF	N
CA 8.3.2/01	Nienstedt, K.M.	1999a	Gibberellin A4 & A7 – Toxicity test with the parasitic wasp, <i>Aphidius rhopalosiphii</i> (Hymenoptera: Braconidae) Report No. 1042.008.270 Springborn Smithers Laboratories (Europe) AG, Horn, Switzerland GLP Unpublished	N	N	-	VBC	In DAR II A 8.3.2/01

CA 8.3.2/02	Nienstedt, K.M.	1999b	Gibberellin A4 & A7 – Laboratory contact toxicity test with the predacious mite, <i>Typhlodromus pyri</i> Scheuten (Acari: Phytoseiidae) Report No. 1042.008.268 Springborn Smithers Laboratories (Europe) AG, Horn, Switzerland GLP Unpublished	N	N	-	VBC	In DAR II A 8.3.2/02
CA 8.4.1/01	Porch, J.R. & Krueger, H.O.	2001	ABG-3192 [Gibberellin A4 + A7]: An acute toxicity study with the earthworm in an artificial soil substrate Report No. 529-103 Wildlife International Ltd., Maryland, USA GLP Unpublished	N	N	-	VBC	In DAR II A 8.4.1/01
CA 8.4.1/02	Sloman, T.L. and Porch, J.R.	2017	Gibberellic acid: a reproduction study with the earthworm in an artificial soil substrate Report No. 529P-109 EAG Laboratories, Maryland, USA GLP Unpublished	N	Y	New study submitted for the purpose of renewal	GA4/7 TF	N
CA 8.5/01	van der Kolk, J.	2000	Gibberellin A4 & A7 – The effects on the respiration and nitrification of soil microflora	N	N	-	VBC	In DAR II A 8.5/01

			Report No. 1042.006.748 Springborn Smithers Laboratories (Europe) AG, Horn, Switzerland GLP Unpublished					
CA 8.6.2/ 01	Stead, A.	2018	Gibberellins A4A7: GLP Seedling Emergence and Seedling Growth Test Terrestrial Non-Target Plants (based on OECD Guideline 208) – 2017 Report No. STC/17/E1126 Stockbridge Technology Centre, Cawood, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	VBC	N
CA 8.8/01	Barnes, S.P.	2004	Gibberellins A4 and A7 (technical grade) Activated sludge- respiration inhibition test Report No. ZAB 048/042941 Huntingdon Life Sciences Ltd., Cambridgeshir e, UK GLP Unpublished	N	N	-	VBC	In DAR II A 8.8/01
CA 8.9/01	MacMillan , J.	2002	Occurrence of Gibberellins in Vascular Plants, Fungi, and Bacteria Journal of Plant Growth Regulation, 20, 387-442 Non-GLP Published	N	N	-	-	In DAR B.7.1.3

References for the plant protection product:

Data Point	Author(s)	Year	Title Compagny Report No. Source (where different from company) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previous evaluation
CP 10.2.1/01	[REDACTED]	2010a	Novagib: Acute Toxicity To Rainbow Trout (<i>Oncorhynchus mykiss</i>) Report No. [REDACTED] [REDACTED] [REDACTED] [REDACTED] GLP Unpublished	Y	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd	N
CP 10.2.1/02	Goodband, T. J. and Mullee, D. M.	2010b	Novagib: Acute Toxicity To <i>Daphnia magna</i> Report No. 0673/0014 Harlan Laboratories Ltd., Shardlow, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd	N
CP 10.2.1/03	Vryenhoef, H. and Mullee, D. M.	2010	Novagib: Algal Growth Inhibition Test Report No. 0673/0015 Harlan Laboratories Ltd., Shardlow, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd	N

CP 10.2.1/04	Scheerbaum, D.	2012	Novagib: Aquatic plant toxicity test, <i>Lemna minor</i> , limit-test, semi- static, 7 days Report No. 120508FM/ SLM15085 Dr. U. Noack- Laboratorien, Sarstedt, Germany GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agrochemicals Ltd	N
CP 10.2.1/05	Hermes, H. & Wydra, V.	2014	Toxicity of Novagib to the aquatic plant <i>Myriophyllum spicatum</i> in a static growth inhibition limit test with a prior rooting phase Report No. 90251215 IBACON GmbH, Rossdorf, Germany GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agrochemicals Ltd	N
CP 10.2.1/06	██████████ █	2004	The acute toxicity of GA ₄ /GA ₇ 10g/l SL to Rainbow Trout (<i>Oncorhynchus mykiss</i>) over a 96-hour exposure period. ██████████ ██████████ ██████████ Report No. ██████████ ██████████. GLP, unpublished.	Y	N	-	Globachem nv	In DAR III A 10.2.1/01
CP 10.2.1/07	Craig, W. J.	2004a	The toxicity to <i>Daphnia magna</i> of GA ₄ /GA ₇ 10 g/l SL. Chemex Environmental International Ltd. Report No.	N	N	-	Globachem nv	In DAR III A 10.2.1/02

			ENV6921/050 407. GLP, unpublished.					
CP 10.2.1/08	Craig, W. J.	2004b	The Growth Inhibition of the alga <i>Pseudokirchneriella subcapitata</i> (<i>Selenastrum capricornutum</i>) by GA ₄ /GA ₇) 10g/l SL. Chemex Environmental International Ltd. Report No. ENV6920/050 407. GLP, unpublished.	N	N	-	Globac hem nv	In DAR III A 10.2.1/03
CP 10.3.2.1/ 01	Jeker, L.	2010	Novagib: Toxicity to the Predatory Mite <i>Typhlodromus pyri</i> (Acari: Phytoseiidae) under Worst- Case Laboratory Conditions Report No. C94908 Harlan Laboratories Ltd., Itingen, Switzerland GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agrochemicals Ltd	N

CP 10.3.2.2/ 01	Schmidt, T.	2011	Novagib: Toxicity to the Predatory bug <i>Orius</i> <i>laevigatus</i> (Heteroptera: Anthocoridae) under Extended Laboratory Conditions Report No. C94910 Harlan Laboratories Ltd., Itingen, Switzerland GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd	N
CP 10.4.1.1/ 01	Goodband, T.J.	2011	Novagib: Acute toxicity to earthworms (<i>Eisenia</i> <i>foetida</i>) Report No. 41004741 Harlan Laboratories Ltd., Shardlow, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd	N
CP 10.5/01	Clarke, N.	2011	Novagib: Effect on soil microorganism s: Nitrogen transformation test and carbon transformation test Report No. 41004742 Harlan Laboratories Ltd., Shardlow, UK GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd	N

CP 10.6.2/01	Fiebig, S.	2017	Novagib GA4/7 (FAL460) Terrestrial Plant Test: Vegetative Vigour Test Report No. 170411FO / TNW17709 Noack Laboratorien GmbH, Sarstedt, Germany GLP Unpublished	N	Y	New study submitted for the purpose of renewal	Fine Agroch emical s Ltd	N
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