

Renewal Assessment Report

***Cydia pomonella* GV**

Volume 2

List of the tests, studies and information submitted

Rev. 0 – 16 October 2020

Rapporteur Member State: Germany

Co-Rapporteur Member State: The Netherlands

Version history

When	What
16 October 2020	First version submitted to EFSA

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A.1 Identity

A1.1 Active Substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protec- tion is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMA 1.3	Evans, H.F., Har- rap, K.A.	1982	PERSISTENCE OF INSECT VIRUSES not available, not applicable Virus Persistence, Publisher: Cambridge University Press, 58- 96 GLP/GEP: no Published: yes 2098032 / BWS2006-13	no	no	not protected	-	Y KIIM 1.3.1
KMA 1.3	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMENTAL APPLICA- TIONS INVOLVING BACULOVIRUS not available, not applicable ENV/JM/MONO, 1, 1-90 GLP/GEP: no Published: yes 2019066 / BWS2006-90	no	no	not protected	-	Y KIIM 1.3.1
KMA 1.3	Bilimoria, S. L.	1986	TAXONOMY AND IDENTIFICATION OF BACULOVIRUS not available, not applicable The Biology of Baculoviruses, Biological Properties and Mo- lecular Biology, Publisher: CRC Press, 1, 37-59 GLP/GEP: no Published: yes 2019060 / BWS2006-88	no	no	not protected	-	Y KIIM 1.3.1

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KMA 1.3	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUSES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Proper- ties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes 2098035 / BWS2006-15	no	no	not protected	-	Y KIIM 1.3.1
KMA 1.3	ICTV (International Committee of Taxonomy of Vi- rus database)	2000a	00.006.06.0.02.001 CYDIA POMONELLA GRANULOVIRUS Arysta LifeScience S.A.S., not stated not available GLP/GEP: no Published: no 2019057 / BWS2006-123	no	no	not protected	ALS	Y KIIM 1.3.3
KMA 1.3	ICTV (International Committee of Taxonomy of Vi- rus database)	2000b	COMPARISON OF SINGLE VIRAL PROTEIN, 00.006.0.01 NUCLEOPOLYHEDROVIRUS, POLYHEDRON, 00.006.0.02. GRANULOVIRUS, GRANULIN Arysta LifeScience S.A.S., not stated not available GLP/GEP: no Published: no 2019064 / BWS2006-124	no	no	not protected	ALS	Y KIIM 1.3.3
KMA 1.3	Aupinel, P.	2005	CERTIFICATE OF ORIGIN OF CPGV ISOLATE TRANSMITTED TO NPP Arysta LifeScience S.A.S., not stated Institut National de la Recherche Agronomique, France GLP/GEP: no Published: no 2019054	no	no	not protected	ALS	Y KMII 1.3.1

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KMA 1.3	Tweeten, K.A., Bulla, L.A., Con- sigli, R.A.	1981	APPLIED AND MOLECULAR ASPECTS OF INSECT GRANULOSIS VIRUSES not available, not applicable not available GLP/GEP: no Published: no 2019062 / BWS2006-89	no	no	not protected		Y KMII 1.3.3
KMA 1.3	Crook, N.E., James, J.D., Smith, I.R.L., Winstanley, D.	1997	COMPREHENSIVE PHYSICAL MAP OF THE CYDIA POMONELLA GRANULOVIRUS GENOME AND SE- QUENCE ANALYSIS OF THE GRANULIN GENE RE- GION not available, not applicable Journal of General Virology, 18, 965-974 GLP/GEP: no Published: yes 2019078 / BWS2006-93	no	no	not protected	-	Y KIIM 1.3.3
KMA 1.3	NCBI Sequence Viewer v2.0	2001	U53466, CYDIA POMONELLA not available, not applicable http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?val=U53466 GLP/GEP: no Published: yes 1932501 / BWS2006-17	no	no	not protected	-	Y KIIM 1.3.3
KMA 1.3	Luque, T., Finch, R., Crook, N., O'Reilly, D.R., Winstanley, D.	2001	THE COMPLETE SEQUENCE OF THE CYDIA POMO- NELLA GRANULOVIRUS GENOME not available, not applicable Journal of General Microbiology, 82, 2531-2547 GLP/GEP: no Published: yes 2019080 / BWS2006-94	no	no	not protected	-	Y KIIM 1.3.3

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KMA 1.3	Jehle, J.	2006a	COMPARATIVE RESTRICTION ANALYSIS CPGV (NEUSTADT MEXICAN ISOLATE) WITH CPGV (SIPCAM MEXICAN ISOLATE) Sipcam S.p.A., SIP01 DLR-Rheinpfalz, Neustadt, Germany GLP: yes Published: no 3332644 / BWS2006-19	no	no	not protected	SIP	Y KIIM 1.3.3
KMA 1.3	Jehle J.	2006	COMPARATIVE RESTRICTION ANALYSIS CPGV (NEUSTADT MEXICAN ISOLATE) WITH CPGV (MADEX MEXICAN ISOLATE) Andermatt Biocontrol GmbH / Probis GmbH, not applicable DLR-Rheinpfalz, Neustadt, Germany GLP/GEP: no Published: no 3431947 / BWS2006-98	no	no	not protected	PKA	Y KIIM 1.3.3
KMA 1.3	Jehle, J.	2005	COMPARATIVE RESTRICTION ANALYSIS CPGV (NEUSTADT MEXICAN ISOLATE) WITH CPGV (INRA MEXICAN ISOLATE) Arysta LifeScience S.A.S., ARY03 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP/GEP: no Published: no 3332645 / BWS2006-87	no	no	not protected	ALS	Y KIIM 1.3.3

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KMA 1.3	Jehle, J.	2006b	COMPARATIVE RESTRICTION ANALYSIS CPGV (CARPOVIRUSINE, TECHNICAL CONCENTRATE, BATCH 1461/SMT) WITH CPGV (INRA MEXICAN ISO- LATE) Arysta LifeScience S.A.S., ARY02 not available GLP/GEP: no Published: no 3332646 / BWS2006-86	no	no	not protected	ALS	Y KIIM 1.4.3.1
KMA 1.3	Crook, N.E., Spencer, R.A., Payne, C.C., Leisy, D.J.	1985	VARIATION IN CYDIA POMONELLA GRANULOSIS VIRUS ISOLATES AND PHYSICAL MAPS OF THE DNA FROM THREE VARIANTS not available, not applicable not available GLP/GEP: no Published: no 2019070 / BWS2006-91	no	no	not protected		Y KIIM 1.3.3
KMA 1.3/01	Kessler, P.	2010a	DECLARATION OF ORIGIN CPGV ISOLATE ABC-V15 (DSMZ GV-00013) Andermatt Biocontrol AG, CH, not stated Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 3306430	no	yes	protected	ABA	N
KMA 1.3/02	Kessler, P.	2010b	DECLARATION OF ORIGIN CPGV ISOLATE ABC-V22 (DSMZ GV-00014) Andermatt Biocontrol AG, CH, not stated Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 3306431	no	yes	protected	ABA	N

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KMA 1.3/03	Kessler, P.	2008	DECLARATION ON THE ORIGIN AND CHARACTERI- ZATION OF THE ACTIVE INGREDIENT OF MADEX PLUS Andermatt Biocontrol AG, CH, not applicable Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 3306432	no	yes	protected	ABA	N
KMA 1.3/04	Jehle, J., Eberle, K.	2009a	COMPARATIVE RESTRICTION ANALYSIS OF V15 Andermatt Biocontrol AG, CH, not stated DLR-Rheinfalz, Neustadt, Germany GLP/GEP: no Published: no 3306433	no	yes	protected	ABA	N
KMA 1.3/05	Jehle, J., Eberle, K.	2009b	COMPARATIVE RESTRICTION AND PHYLOGENETIC ANALYSIS OF V22 Andermatt Biocontrol AG, CH, not stated DLR-Rheinfalz, Neustadt, Germany GLP/GEP: no Published: no 3306434	no	yes	protected	ABA	N
KMA 1.3/06	Jehle, J.	2006c	COMPARATIVE RESTRICTION ANALYSIS OF CPGV (NEUSTADT MEXICAN ISOLATE) WITH CPGV (MADEX PLUS) Andermatt Biocontrol AG, CH, not applicable Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP/GEP: no Published: no 3306435	no	yes	protected	ABA	N

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KMA 1.3/07	Jehle, J., Eberle, K.	2009c	COMPARATIVE RESTRICTION ANALYSIS OF CPGV CARPOVIRUSINE-R5 WITH CPGV (VIROSOFT), CPGV-E2 AND CPGV-M (NEUSTADT) Arysta LifeScience S.A.S., NPP_09.1 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP/GEP: no Published: no 3306436	no	yes	protected	ALS	N
KMA 1.3	Winter, S.	2011	The Granulosevirus preparation CpGV-Isolate V14 Andermatt Biocontrol AG, CH, GV-0015 DSMZ GmbH, Braunschweig, Germany GLP/GEP: no Published: no 3714749	no	yes	protected	ABA	N
KMA 1.3	Menzel, W.	2017	The Granulosevirus preparation CpGV V45 Andermatt Biocontrol AG, CH, GV-0017 DSMZ GmbH, Braunschweig, Germany GLP/GEP: no Published: no 3714797	no	yes	protected	ABA	N
KMA 1.3	Jehle, J.A.; Eberle, K.E.	2010	Comparative restriction analysis of C15 Certis Europe B.V., BE, not stated Julius Kühn-Institut GLP/GEP: no Published: no 3714752	no	yes	protected	ABA	N

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KMA 1.3	Brader, G.	2018	Report AIT_KS_V45: Restriction enzyme analysis of CpGV-V45 and in silico comparison with sequenced CpGV isolates Andermatt Biocontrol AG, CH, ABA10256_AIT_KS_V45 Austrian Institute of Technology GmbH GLP/GEP: no Published: no 3714804	no	yes	protected	ABA	N
KMA 1.3	Herniou, E.A.; Luque, T.; Chen, X.; Vlak, J.M.; Winstanley, D.; Cory, J.S.; O'Reilly, D.R.	2001	Use of Whole Genome Sequence Data To Infer Baculovirus Phylogeny Journal of Virology, 75(17), 8117-8126 GLP/GEP: no Published: yes 3714747	no	no	not protected		
KMA 1.3	Jehle, J.A.; Blissard, G.W.; Bonning, B.C.; Cory, J.S.; Her- niou, E.A.; Rohrmann, G.F.; Theilmann, D.A.; Thiem, S. M.; Vlak, J.M.	2006	On the classification and nomenclature of baculoviruses: A proposal for revision Archives of Virology, 151, 1257-1266 GLP/GEP: no Published: yes 3714748	no	no	not protected		
KMA 1.3	Eberle, K. E.; Sayed, S.; Rezapanah, M.; Shojai-Estabragh, S.; Jehle, J. A.	2009	Diversity and Evolution of the Cydia pomonella granulovirus Journal of General Virology, 90, 662-671 GLP/GEP: no Published: yes 3714754	no	no	not protected		

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protec- tion is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMA 1.3	Wennmann, J.T.; Radtke, P.; Eberle, K.E.; Gueli Allet- ti, G.; Jehle, J.A.	2017	Deciphering Single Nucleotide Polymorphisms and Evolutionary Trends in Isolates of the Cydia pomonella granulovirus Viruses, 9, 227, 1-12 GLP/GEP: no Published: yes 3714755	no	no	not protected		

A1.2 Product 1 Carpovirusine

See Volume 4.

A1.3 Product 2 Madex

See Volume 4.

A1.4 Product 3 Madex Twin

See Volume 4.

A1.5 Product 4 Virgo

See Volume 4.

A.2 Biological properties

A2.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protec- tion claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMA 2.1.1	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMEN- TAL APPLICATIONS INVOLVING BACULOVIRUS not available, not applicable ENV/JM/MONO, 1, 1-90 GLP/GEP: no Published: yes 3682775	no	no	not protected	-	Y KIIM 2.1
KMA 2.1.1	Tanada, Y., Kaya, H.K.	1993	DNA-VIRAL INFECTIONS: BACULOVIRIDAE not available, not applicable In: Insect Pathology. Academic Press (ed.), 171-244 GLP/GEP: no Published: yes 3682776	no	no	not protected	-	Y KIIM 2.1
KMA 2.1.1	Huber, J.	1990	HISTORY OF THE CPGV AS A BIOLOGICAL CONTROL AGENT - ITS LONG WAY TO A COMMERCIAL VIRAL PESTICIDE not available, not applicable not available GLP/GEP: no Published: yes 2019086	no	no	not protected		Y KIIM 2.1

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KMA 2.1.1	Copping, L.G.	1998	THE BIOPESTICIDE MANUAL not available, not applicable British Crop Protection Council, 60-61 GLP/GEP: no Published: yes 3682777	no	no	not protected	-	Y KIIM 2.1
KMA 2.1.1	Jones, K.A.	2000	BIOASSAYS OF ENTOMOPATHOGENIC VIRUS- ES not available, not applicable In: Navon, A., Ascher, K.R.S. (eds.)- Bioassays of entomopathogenic microbes and nematodes, 95-140 GLP/GEP: no Published: yes 3682778	no	no	not protected	-	Y KIIM 2.1
KMA 2.1.1	Shao-Hua, C., Hong-Liang, S., Zuo-Hu, L.	1998	EFFECT OF TEMPERATURE OSCILLATION ON INSECT CELL GROWTH AND BACULOVIRUS REPLICATION not available, not applicable Applied and Environmental Microbiology, 64, 2237- 2239 GLP/GEP: no Published: yes 3682779	no	no	not protected	-	Y KIIM 2.1
KMA 2.1.2	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMEN- TAL APPLICATIONS INVOLVING BACULOVIRUS NOT AVAILABLE, NOT APPLICABLE ENV/JM/MONO, 1, 1-90 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.1.1 2019088	no	no	not protected	-	Y KIIM 2.1

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KMA 2.1.2	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION NOT AVAILABLE, NOT APPLICABLE Z ANGEW ENTOMOL, 82, 129-134 GLP/GEP: NO PUBLISHED: YES 3682706	no	no	not protected	-	Y KIIM 2.2
KMA 2.1.2/01	Kessler, P.	2010a	DECLARATION OF ORIGIN CPGV ISOLATE ABC-V15 (DSMZ GV-00013) ANDERMATT BIOCONTROL AG, CH, NOT STATED ANDERMATT BIOCONTROL AG, GROSSDIETWIL, SWITZERLAND GLP/GEP: NO PUBLISHED: NO 3306437	no	yes	New data for active ingredi- ent, not previ- ously submitted nor evaluated	ABA	N
KMA 2.1.2/02	Kessler, P.	2010b	DECLARATION OF ORIGIN CPGV ISOLATE ABC-V22 (DSMZ GV-00014) ANDERMATT BIOCONTROL AG, CH, NOT STATED ANDERMATT BIOCONTROL AG, GROSSDIETWIL, SWITZERLAND GLP/GEP: NO PUBLISHED: NO 3306438	no	yes	protected	ABA	N

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KMA 2.1.2/03	Kessler, P.	2008	DECLARATION ON THE ORIGIN AND CHARACTERIZATION OF THE ACTIVE INGREDIENT OF MADEX PLUS ANDERMATT BIOCONTROL AG, CH, NOT APPLICABLE ANDERMATT BIOCONTROL AG, GROSSDIETWIL, SWITZERLAND GLP/GEP: NO PUBLISHED: NO 3306439	no	yes	New data for active ingredient, not previously submitted nor evaluated	ABA	N
KMA 2.1.2/04	Jehle, J., Eberle, K.	2009ab	COMPARATIVE RESTRICTION ANALYSIS OF V15 ANDERMATT BIOCONTROL AG, CH, NOT STATED DLR-RHEINPFALZ, NEUSTADT, GERMANY GLP/GEP: NO PUBLISHED: NO SUBMITTED IN: KMA 1.3/04 3306433	no	yes	protected	ABA	N
KMA 2.1.2/05	Jehle, J., Eberle, K.	2009ba	COMPARATIVE RESTRICTION AND PHYLOGENETIC ANALYSIS OF V22 ANDERMATT BIOCONTROL AG, CH, NOT STATED DLR-RHEINPFALZ, NEUSTADT, GERMANY GLP/GEP: NO PUBLISHED: NO SUBMITTED IN: KMA 1.3/05 3306434	no	yes	protected	ABA	N

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KMA 2.1.2/06	Jehle, J.	2006c	COMPARATIVE RESTRICTION ANALYSIS OF CPGV (NEUSTADT MEXICAN ISOLATE) WITH CPGV (MADEX PLUS) ANDERMATT BIOCONTROL AG, CH, NOT AP- PLICABLE DIENSTLEISTUNGSZENTRUM LÄNDLICHER RAUM, NEUSTADT AN DER WEINSTRASSE GLP/GEP: NO PUBLISHED: NO SUBMITTED IN: KMA 1.3/06 3306435	no	yes	protected	ABA	N
KMA 2.2.1	Little, V.A.	1963	ORDERS TRICHOPTERA AND LEPIDOPTERA, FAMILY TORTRICIDAE (TORTRICIDS), THE CODLING MOTH NOT AVAILABLE, NOT APPLICABLE GENERAL AND APPLIED ENTOMOLOGY, 2ND EDITION 324-326 GLP/GEP: NO PUBLISHED: YES 3682781	no	no	not protected	-	Y KIIM 2.3.1
KMA 2.2.2	Copping, L.G.	1998	THE BIOPESTICIDE MANUAL NOT AVAILABLE, NOT APPLICABLE BRITISH CROP PROTECTION COUNCIL, 60-61 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.1.1 3714761	no	no	not protected	-	Y KIIM 2.3.2

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KMA 2.2.2	Tanada, Y., Leutenegger, R.	1968	HISTOPATHOLOGY OF A GRANULOSIS-VIRUS DISEASE OF THE CODLING MOTH, CAR-POCAPSA POMONELLA NOT AVAILABLE, NOT APPLICABLE JOURNAL OF INVERTEBRATE PATHOLOGY, 10, 39-47 GLP/GEP: NO PUBLISHED: YES 3714762	no	no	not protected	-	Y KIIM 2.3.2
KMA 2.2.2	Tanada, Y., Kaya, H.K.	1993	DNA-VIRAL INFECTIONS: BACULOVIRIDAE NOT AVAILABLE, NOT APPLICABLE IN: INSECT PATHOLOGY. ACADEMIC PRESS (ED.), 171-244 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.1.1 3714763	no	no	not protected	-	Y KIIM 2.3.2
KMA 2.2.2	Bilimoria, S. L.	1986	TAXONOMY AND IDENTIFICATION OF BACULOVIRUSES NOT AVAILABLE, NOT APPLICABLE THE BIOLOGY OF BACULOVIRUSES, BIOLOGICAL PROPERTIES AND MOLECULAR BIOLOGY, PUBLISHER: CRC PRESS, 1, 37-59 GLP/GEP: NO PUBLISHED: YES 3689461	no	no	not protected	-	Y KIIM 1.3.3

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KMA 2.2.2	Steineke, S.B.	2004	POPULATIONSDYNAMIK DES CYDIA POMONELLA GRANULOVIRUS NOT AVAILABLE, NOT STATED DISSERTATION ZUR ERLANGUNG DES GRADES “DOKTOR DER NATURWISSENSCHAFTEN” AM FACHBEREICH BIOLOGIE DER JOHANNES GUTENBERG-UNIVERSITÄT IN MAINZ, PP. 134 GLP/GEP: NO PUBLISHED: YES 2019090	no	no	not protected	-	Y KIIM 2.3.2
KMA 2.2.2	Steineke, S.B., Jehle, J.A.	2004	INVESTIGATING THE HORIZONTAL TRANSMISSION OF THE CYDIA POMONELLA GRANULOVIRUS (CPGV) IN A MODEL SYSTEM NOT AVAILABLE, NOT APPLICABLE BIOLOGICAL CONTROL, 30, 538-545 GLP/GEP: NO PUBLISHED: YES 2019092	no	no	not protected	-	N
KMA 2.2.2	Kienzle, J., Schulz, C., Zebitz, C.P.W., Huber, J.	2003	PERSISTENCE OF THE BIOLOGICAL EFFECT OF CODLING MOTH GRANULOVIRUS IN THE ORCHARD -PRELIMINARY FIELD TRIALS NOT AVAILABLE, NOT APPLICABLE INSECT PATHOGENS AND INSECT PARASITIC NEMATODES, IOBC WPRS BULLETIN, 26 (1), 245-248 GLP/GEP: NO PUBLISHED: YES 3682783	no	no	not protected	-	Y KIIM 2.3.2

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KMA 2.3	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMEN- TAL APPLICATIONS INVOLVING BACULOVIR- US NOT AVAILABLE, NOT APPLICABLE ENV/JM/MONO, 1, 1-90 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.1.1 3682775	no	no	not protected	-	Y KIIM 2.3.2
KMA 2.3	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS- ES NOT AVAILABLE, NOT APPLICABLE THE BIOLOGY OF BACULOVIRUSES, VOLUME I, BIOLOGICAL PROPERTIES AND MOLECULAR BIOLOGIE, CHAPTER 9, 177-201 GLP/GEP: NO PUBLISHED: YES 3682784	no	no	not protected	-	Y KIIM 2.4
KMA 2.3	Fritsch, E., Huber, J., Backhaus, H.	1990	CPGV AS A TOOL IN THE RISK ASSESSMENT OF GENETICALLY ENGINEERED BACULOVIR- USES NOT AVAILABLE, NOT APPLICABLE VTH INTERNATIONAL COLLOQUE ON INVER- TEBRATE PATHOLOGY AND MICROBIAL CONTROL, ADELAIDE, AUSTRALIA, 439-443 GLP/GEP: NO PUBLISHED: YES 2390234	no	no	not protected	-	Y KIIM 2.4

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KMA 2.3/01	Züger, M.	2011a	HOST RANGE CPGV ISOLATE ABC-V14 I 2011 ANDERMATT BIOCONTROL AG, CH, NOT STATED ANDERMATT BIOCONTROL AG, GROSSDIETWIL, SWITZERLAND GLP/GEP: NO PUBLISHED: NO 3714765	no	yes	protected	AND1	N
KMA 2.3/02	Züger, M.	2011b	BIOASSAY WITH CPGV ISOLATE ABC V14 AGAINST CPGV-SENSITIVE AND CPGV- RESISTANT LARVAE OF CYDIA POMONELLA ANDERMATT BIOCONTROL AG, CH, NOT STATED ANDERMATT BIOCONTROL AG, GROSSDIETWIL, SWITZERLAND GLP/GEP: NO PUBLISHED: NO 3714766	no	yes	protected	AND	N
KMA 2.3/03	Züger, M	2017a	AW: HOST RANGE CPGV ISOLATE ABC-V45 I 2017 ANDERMATT BIOCONTROL AG, CH, NOT STATED NOT AVAILABLE GLP/GEP: NO PUBLISHED: NO 3714813	no	yes	protected	ABA	N

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KMA 2.3/04	Züger, M	2017b	AW: BIOASSAY WITH CPGV ISOLATE ABC-V45 AGAINST GRAPHOLITA MOLESTA, CPGV SEN- SITIVE AND RESISTANT LARVAE OF CYDIA POMONELLA I 2017 ANDERMATT BIOCONTROL AG, CH, NOT STATED NOT AVAILABLE GLP/GEP: NO PUBLISHED: NO 3714814	no	yes	protected	ABA	N
KMA 2.4	Evans, H.F., Har- rap, K.A.	1982	PERSISTENCE OF INSECT VIRUSES NOT AVAILABLE, NOT APPLICABLE VIRUS PERSISTENCE, PUBLISHER: CAM- BRIDGE UNIVERSITY PRESS, 58-96 GLP/GEP: NO PUBLISHED: YES 3682785	no	no	not protected	-	Y KIIM 2.5
KMA 2.4	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMEN- TAL APPLICATIONS INVOLVING BACULOVIRUS NOT AVAILABLE, NOT APPLICABLE ENV/JM/MONO, 1, 1-90 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.1.1 2019094	no	no	not protected	-	Y KIIM 2.1

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KMA 2.4	Copping, L.G.	1998	THE BIOPESTICIDE MANUAL NOT AVAILABLE, NOT APPLICABLE BRITISH CROP PROTECTION COUNCIL, 60-61 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.1.1 3682777	no	no	not protected	-	Y KIIM 2.5
KMA 2.4	Hess, R.T., Falcon, L.A.	1987	TEMPORAL EVENTS IN THE INVASION OF THE CODLING MOTH, CYDIA POMONELLA, BY A GRANULOSIS VIRUS: AN ELECTRON MICRO- SCOPE STUDY NOT AVAILABLE, NOT APPLICABLE JOURNAL OF INVERTEBRATE PATHOLOGY, 50, 85-105 GLP/GEP: NO PUBLISHED: YES 2019102	no	no	not protected		Y KIIM 2.5
KMA 2.4	Bilimoria, S. L.	1986	TAXONOMY AND IDENTIFICATION OF BACU- LOVIRUSES NOT AVAILABLE, NOT APPLICABLE THE BIOLOGY OF BACULOVIRUSES, BIOLOGI- CAL PROPERTIES AND MOLECULAR BIOLOGY, PUBLISHER: CRC PRESS, 1, 37-59 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.2.2 3689461	no	no	not protected	-	Y KIIM 1.3.3

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KMA 2.4	Jaques, R.A.	1977	STABILITY OF ENTOMOPATHOGENIC VIRUSES NOT AVAILABLE, NOT APPLICABLE MISCELLANEOUS PUBLICATIONS OF THE EN- TOMOLOGICAL SOCIETY OF AMERICA, 10 (3), 99 - 116 GLP/GEP: NO PUBLISHED: YES 3728861	no	no	not protected	-	Y KIIM 2.5
KMA 2.4	Kool, M., Ahrens, C.H., Vlak, J.M., Rohrmann, G.F.	1995	REPLICATION OF BACULOVIRUS DNA NOT AVAILABLE, NOT APPLICABLE JOURNAL OF GENERAL VIROLOGY, 76, 2103- 2118 GLP/GEP: NO PUBLISHED: YES 2019110	no	no	not protected		Y KIIM 2.5
KMA 2.4/01	Huh, N.E., Weav- er, R.F.	1990	IDENTIFYING THE RNA POLYMERASES THAT SYNTHESIZE SPECIFIC TRANSCRIPTS OF THE AUTOGRAPHA CALIFORNICA NUCLEAR POL- YHEDROSIS VIRUS NOT AVAILABLE, NOT APPLICABLE JOURNAL OF GENERAL VIROLOGY, 71, 195-201 GLP/GEP: NO PUBLISHED: YES 3714815	no	no	not protected	-	N
KMA 2.5	Jaques, R.A.	1977	STABILITY OF ENTOMOPATHOGENIC VIRUSES NOT AVAILABLE, NOT APPLICABLE MISCELLANEOUS PUBLICATIONS OF THE EN- TOMOLOGICAL SOCIETY OF AMERICA, 10 (3), 99 - 116 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.4 3714768	no	no	not protected	-	Y KIIM 2.8

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KMA 2.5	Huber, J.	1982	COMPARISON OF FIELD PERSISTENCE OF CPGV AND AONPV NOT AVAILABLE, NOT APPLICABLE C.E.C. MEETING OF EXPERTS ON "VIRUS PRO- DUCTION AND SPECIFIC CONTROL TECH- NIQUES IN ORCHARDS", DARMSTADT, 2-3 DE- CEMBER, 1982 GLP/GEP: NO PUBLISHED: YES 3682714	no	no	not protected	-	Y KIIM 2.8
KMA 2.5	Schmid, A.	1974	INVESTIGATIONS OF THE PERSISTANCE OF THE GRANULOSIS VIRUS OF THE LARCH BUD MOTH ZEIRAPHERA DINIANA (GN.) IN THE ENVIRONMENT AND THE PROTECTIVE AC- TION OF SOME SUBSTANCES NOT AVAILABLE, NOT APPLICABLE Z ANGEW ENTOMOL, 76, 31-49 GLP/GEP: NO PUBLISHED: YES 3682823	no	no	not protected	-	Y KIIM 2.8
KMA 2.5	Steineke, S.B.	2004	POPULATIONSDYNAMIK DES CYDIA POMO- NELLA GRANULOVIRUS NOT AVAILABLE, NOT STATED DISSERTATION ZUR ERLANGUNG DES GRA- DES "DOKTOR DER NATURWISSENSCHAFTEN" AM FACHBEREICH BIOLOGIE DER JOHANNES GUTENBERG-UNIVERSITÄT IN MAINZ, PP. 134 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.2.2 2019090	no	no	not protected	-	Y KIIM 2.3.2

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KMA 2.5	Krieg, A., Gröner, A., Huber, J., Zimmermann, G.	1981	INACTIVATION OF CERTAIN INSECT PATHOGENS BY ULTRAVIOLET RADIATION NOT AVAILABLE, NOT APPLICABLE JOURNAL OF PLANT DISEASES AND PROTECTION, 88 (1), 38-48 GLP/GEP: NO PUBLISHED: YES 3682824	no	no	not protected	-	Y KIIM 2.8
KMA 2.5	Kienzle, J., Schulz, C., Zebitz, C.P.W., Huber, J.	2003	PERSISTENCE OF THE BIOLOGICAL EFFECT OF CODLING MOTH GRANULOVIRUS IN THE ORCHARD -PRELIMINARY FIELD TRIALS NOT AVAILABLE, NOT APPLICABLE INSECT PATHOGENS AND INSECT PARASITIC NEMATODES, IOBC WPRS BULLETIN, 26 (1), 245-248 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.2.2 3682888	no	no	not protected	-	Y KIIM 2.8
KMA 2.5	David, W.A.L., Gardiner, B.O.C.	1967	THE PERSISTENCE OF A GRANULOSIS VIRUS OF PIERIS BRASSICAE IN SOIL AND IN SAND NOT AVAILABLE, NOT APPLICABLE JOURNAL OF INVERTEBRATE PATHOLOGY 9, 342-347 GLP/GEP: NO PUBLISHED: YES 3682713	no	no	not protected	-	Y KIIM 2.8

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KMA 2.5	Huber, J.	2000	CERTIFICATE OF ANALYSIS ANDERMATT BIOCONTROL GMBH / PROBIS GMBH, NOT APPLICABLE BIOL. BUNDESANST. FÜR LAND- UND FORST- WIRTSCHAFT, DARMSTADT GLP/GEP: NO PUBLISHED: NO 3682728	no	no	not protected	PKA	Y KIIM 2.8
KMA 2.5	Gröner, A., Knauf, Reuß	1990	CYDIA POMONELLA GRANULOSUS VIRUS (CPGV) HOE 083311 SUMMARY ON CHEMICAL AND PHYSICAL DATA ANDERMATT BIOCONTROL GMBH / PROBIS GMBH, A55428 AGREVO, HOECHST AND SCHERING, MAR- BURG, GERMANY GLP/GEP: NO PUBLISHED: NO 3682712	no	no	not protected	PKA	Y KIIM 2.8
KMA 2.5	Tanada, Y., Omi, E.M.	1974	PERSISTENCE OF INSECT VIRUSES IN FIELD POPULATIONS OF ALFALFA INSECTS NOT AVAILABLE, NOT APPLICABLE JOURNAL OF INVERTEBRATE PATHOLOGY 23, 360-365 GLP/GEP: NO PUBLISHED: YES 3682711	no	no	not protected	-	Y KIIM 2.8

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KMA 2.5	Thomas, E.D., Reichelderfer, C.F., Heimpel, A.M.	1973	THE EFFECT OF SOIL PH ON THE PERSISTENCE OF CABBAGE LOOPER NUCLEAR POLYHE- DROSIS VIRUS IN SOIL NOT AVAILABLE, NOT APPLICABLE JOURNAL OF INVERTEBRATE PATHOLOGY, 21, 21-25 GLP/GEP: NO PUBLISHED: YES 3682710	no	no	not protected	-	Y KIIM 2.8
KMA 2.5	Evans, H.F., Har- rap, K.A.	1982	PERSISTENCE OF INSECT VIRUSES NOT AVAILABLE, NOT APPLICABLE VIRUS PERSISTENCE, PUBLISHER: CAM- BRIDGE UNIVERSITY PRESS, 58-96 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.4 3714767	no	no	not protected	-	Y KIIM 2.8
KMA 2.6	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMEN- TAL APPLICATIONS INVOLVING BACULOVIRUS NOT AVAILABLE, NOT APPLICABLE ENV/JM/MONO, 1, 1-90 GLP/GEP: NO PUBLISHED: YES SUBMITTED IN: KMA 2.1.1 3728852	no	no	not protected	-	Y KIIM 2.7.1

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KMA 2.7	Harvey, J.P., Volkman, L.E.	1983	BIOCHEMICAL AND BIOLOGICAL VARIATION OF CYDIA POMONELLA (CODLING MOTH) GRANULOSIS VIRUS NOT AVAILABLE, NOT APPLICABLE VIROLOGY 124, 21-34 GLP/GEP: NO PUBLISHED: YES 3714770	no	no	not protected	-	Y KIIM 2.10
KMA 2.7	Croizier, G.	1996	ANALYSE DES VIRUS DE LA GRANULOSE DE CARPOCAPSA POMONELLA CONTENUS DANS UN CULOT ISOLÉ PAR CENTRIFUGATION À 15000G DE CHAD FILTRÉ. ORIGINE NPP ARYSTA LIFESCIENCE S.A.S., URA N°2209 INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, FRANCE GLP/GEP: NO PUBLISHED: NO 2019116	no	no	not protected	ALS	Y KIIM 2.10
KMA 2.7	Biache, G.	1998	COMPARISON OF CPGV ISOLATE FROM CAR- POVIRUSINE 2000 WITH DARMSTADT ISOLATE ARYSTA LIFESCIENCE S.A.S., NOT APPLICA- BLE INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, FRANCE GLP/GEP: NO PUBLISHED: NO 2019118	no	no	not protected	ALS	Y KIIM 1.4.3.1

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KMA 2.7	Croizier, G.	2001	CARPOCAPSA POMONELLA GRANULOSIS VI- RUS ANALYSIS. NPP 1996 STANDARD AN NPP 2001 STANDARD ARYSTA LIFESCIENCE S.A.S., EP01630 INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE, FRANCE GLP/GEP: NO PUBLISHED: NO 2388141	no	no	not protected	ALS	Y KIIM 2.10
KMA 2.7	Jehle J.	2006	COMPARATIVE RESTRICTION ANALYSIS CPGV (NEUSTADT MEXICAN ISOLATE) WITH CPGV (MADEX MEXICAN ISOLATE) ANDERMATT BIOCONTROL GMBH / PROBIS GMBH, NOT APPLICABLE DLR-RHEINPFALZ, NEUSTADT, GERMANY GLP/GEP: NO PUBLISHED: NO 3431947	no	no	not protected	PKA	Y KIIM 1.3.3
KMA 2.7	Hughes, A.L., Friedman, R.	2003	GENOME-WIDE SURVEY FOR GENES HORI- ZONTALLY TRANSFERRED FROM CELLULAR ORGANISMS TO BACULOVIRUSES NOT AVAILABLE, NOT APPLICABLE MOLECULAR BIOLOGY AND EVOLUTION, 20, 979-987 GLP/GEP: NO PUBLISHED: YES 2019126	no	no	not protected	-	Y KIIM 2.10

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KMA 2.7	Herniou, E.A., Luque, T., Chen, X., Vlak, J.M., Winstanley, D., Cory, J.S. O'Reilly, D.R.	2001	USE OF WHOLE GENOME SEQUENCE DATA TO INFER BACULOVIRUS PHYLOGENY NOT AVAILABLE, NOT APPLICABLE JOURNAL OF VIROLOGY, 75, 8117-8126 GLP/GEP: NO PUBLISHED: YES 3714747	no	no	not protected	-	N
KMA 2.7	Jehle, J.A., Fritsch, E., Nickel, A., Huber, J., Back- haus, H.	1995	TCL4.7: A NOVEL LEPIDOPTERAN TRANSPOS- ON FOUND IN CYDIA POMONELLA GRANULO- SIS VIRUS NOT AVAILABLE, NOT APPLICABLE VIROLOGY, 207, 369-379 GLP/GEP: NO PUBLISHED: YES	no	no	not protected	-	N
KMA 2.7	Jehle, J.A., Nickel, A., Vlak, J.M. Backhaus, H.	1998	HORIZONTAL ESCAPE OF THE NOVEL TC1- LIKE LEPIDOPTERAN TRANSPOSON TCP3.2 INTO CYDIA POMONELLA GRANULOVIRUS NOT AVAILABLE, NOT APPLICABLE JOURNAL OF MOLECULAR EVOLUTION 46, 215-224 GLP/GEP: NO PUBLISHED: YES	no	no	not protected	-	N
KMA 2.7	Arends, H.M., Winstanley, D., Jehle, J.A.	2005	VIRULENCE AND COMPETITIVENESS OF CYD- IA POMONELLA GRANULOVIRUS MUTANTS: PARAMETERS THAT DO NOT MATCH NOT AVAILABLE, NOT APPLICABLE JOURNAL OF GENERAL VIROLOGY, 86, 2731- 2738 GLP/GEP: NO PUBLISHED: YES	no	no	not protected	-	N

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KMA 2.7	Jehle, J.	2007	COMMUNICATION JOHANNES JEHLE, DLR ARYSTA LIFESCIENCE S.A.S. NOT AVAILABLE GLP/GEP: NO PUBLISHED: NO 1693368	no	no	not protected	ALS	Y KIIM 2.10
KMA 2.7/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA PO- MONELLA GRANULOVIRUS - BIOLOGICAL PROPERTIES ARYSTA LIFESCIENCE S.A.S., NOT APPLICA- BLE ARYSTA LIFESCIENCE, FRANCE GLP/GEP: NO PUBLISHED: NO 3306440	no	yes	protected	ALS	N
KMA 2.7/02	Gilbert, C., Peccoud, J., Chat- eigner, A., Moum- en, B., Cordaux, R., Herniou, E.A	2016	CONTINUOUS INFLUX OF GENETIC MATERIAL FROM HOST TO VIRUS POPULATIONS NOT AVAILABLE, NOT APPLICABLE PLOS GENETICS, 12, 1-21 GLP/GEP: NO PUBLISHED: YES 3306441	no	no	not protected	-	N
KMA 2.7/03	Gilbert, C., Chat- eigner, A., Ernen- wein, L., Barbe, V., Bézier, A., Herniou, E. A., Cordaux, R.	2014	POPULATION GENOMICS SUPPORTS BACU- LOVIRUSES AS VECTORS OF HORIZONTAL TRANSFER OF INSECT TRANSPOSONS NOT AVAILABLE, NOT APPLICABLE NATURE COMMUNICATIONS, 5, 3348 GLP/GEP: NO PUBLISHED: YES 3714821	no	no	not protected	-	N

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KMA 2.7/03	Gebhardt, M.M., Eberle, K.E., Radt- ke, P., Jehle, J.A.	2014	BACULOVIRUS RESISTANCE IN CODLING MOTH IS VIRUS ISOLATE-DEPENDENT AND THE CONSEQUENCE OF A MUTATION IN VI- RAL GENE PE38 NOT AVAILABLE, NOT APPLICABLE PNAS, 111, 15711-15716 GLP/GEP: NO PUBLISHED: YES 3306442	no	no	not protected	-	N
KMA 2.7/04	Chateigner, A., Bézier, A., Labrousse, C., Jiolle, D., Barbe, V., Herniou, E.A.	2015	ULTRA DEEP SEQUENCING OF A BACULOVIRUS POPULATION REVEALS WIDESPREAD GENOMIC VARIATIONS NOT AVAILABLE, NOT APPLICABLE VIRUSES, 7, 3625-3646 GLP/GEP: NO PUBLISHED: YES 3714818	no	no	not protected	-	N
KMA 2.7/05	Gueli Alletti, G., Sauer, A.J., Weih- rauch, B., Fritsch, E., Undorf-Spahn, K., Wennmann, J.T., Jehle, J.A.	2017	USING NEXT GENERATION SEQUENCING TO IDENTIFY AND QUANTIFY THE GENETIC COMPOSITION OF RESISTANCE- BREAKING COMMERCIAL ISOLATES OF CYDIA POMO- NELLA GRANULOVIRUS NOT AVAILABLE, NOT APPLICABLE VIRUSES, 9, 1-16 GLP/GEP: NO PUBLISHED: YES 3714820	no	no	not protected	-	N

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KMP 2.1	Kang, J.	2005	DETERMINATION OF THE STORAGE STABIL- ITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1
KMP 2.1	Cheng, K.M.	2013	"ARY-0453A-042" - DETERMINATION OF THE APPEARANCE AND PH VALUE OF A SAMPLE OF CARPOVIRUSINE FORMULATION Arysta LifeScience S.A.S., OA02383 Oxford Analytical Ltd., Bicester, Oxon GLP: yes Published: no 3306327	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 2.2.1	Kang, J.	2005	DETERMINATION OF THE STORAGE STABIL- ITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1

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KMP 2.2.1	Winstanley, D.	2005	STORAGE STUDY OF ONE BATCH OF THE FORMULATED CARPOVIRUSINE AT 4°C AND 20°C Arysta LifeScience S.A.S., GLP2002W03 WARWICK HRI, United Kingdom GLP/GEP: no Published: no PHY2006-514	no	no	not protected	ALS	Y KIIIM 2.1
KMP 2.2.1	Bolton, A.	2003	DETERMINATION OF THE STORAGE STABILITY CHARACTERISTICS AT 0°C OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMS-2084 not available GLP/GEP: no Published: no PHY2006-515	no	no	not protected	ALS	Y KIIIM 2.1
KMP 2.2.1	Winstanley, D.	2005	DETERMINATION OF THE STORAGE STABILITY OF ONE BATCH OF CARPOVIRUSINE PRODUCT AFTER STORAGE FOR ONE WEEK AT 0°C Arysta LifeScience S.A.S., GLP2002W05 WARWICK HRI, United Kingdom GLP/GEP: no Published: no PHY2006-516	no	no	not protected	ALS	Y KIIIM 2.1
KMP 2.2.1	Soubabère, O.	2007	CARPOVIRUSINE STORAGE STABILITY STUDY AT -18°C Arysta LifeScience S.A.S., not stated Natural Plant Protection, Pau GLP/GEP: no Published: no 1692527	no	no	not protected	ALS	Y KIIIM 2.1

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KMP 2.2.1	Wahl-Ermel, B., Jehle, J., Eberle, K.	2011	STORAGE STABILITY OF CARPOVIRUSINE Arysta LifeScience S.A.S., ARY06 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP: yes Published: no 3306328	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 2.2.1	Wahl-Ermel, B., Jehle, J.	2012	STORAGE STABILITY OF CARPOVIRUSINE Arysta LifeScience S.A.S., ARY07 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP: yes Published: no 3306329	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 2.2.1	Besse, S.	2014	STORAGE MICROBIOLOGICAL STABILITY OF TWO BATCHES OF CARPOVIRUSINE AT 25°C DURING 1 MONTH, AT 4°C DURING 8 MONTHS AND AT -18°C DURING 12 MONTHS Arysta LifeScience S.A.S., 14/03 Natural Plant Protection, Pau GLP/GEP: no Published: no 3306330	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 2.2.1	Paulus, J.	2011	DETERMINATION OF THE SHELF LIFE OF CAR- POVIRUSINE (1X10 ³ GV/L, SC) ACCORDING TO THE GUIDELINES OF CROPLIFE INTERNA- TIONAL Arysta LifeScience S.A.S., 09072401G001 Laus GmbH, Germany GLP: yes Published: no 3306331	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N

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KMP 2.2.1	Morgan, L.	2012	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER 12 MONTHS AT 4°C Arysta LifeScience S.A.S., TM/10/006/2 Battelle UK LTD. GLP: yes Published: no 3306332	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.2.1	Morgan, L.	2010	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER FREEZE-THAW CYCLING Arysta LifeScience S.A.S., TM/10/005/1 Battelle UK LTD. GLP: yes Published: no 3306333	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.2.1	Paulus, J.	2010	DETERMINATION OF THE DENSITY OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO OECD 109 RESP. EU A.3 Arysta LifeScience S.A.S., 09072401G912 Laus GmbH, Germany GLP: yes Published: no 3306334	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.2.1	Buccella, M.	2016	Study Plan: Physical - Chemical properties of I1136AA product before and after 12 months of shelf life at 4°C Natural Plant Protection, BT287/16 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 3306336	no	yes	New data for new formulation, not previously submitted nor evaluated	NPP	N

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KMP 2.2.1	Buccella, M.	2016	Study plan: Physical-Chemical properties of I1136AA product during two years of shelf life at -18°C Natural Plant Protection, BT289/16 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 3306337	no	yes	New data for new formulation, not previously submitted nor evaluated	NPP	N
KMP 2.2.1	Buccella, M.	2017	Final report: Cold storage stability of I1136AA product Natural Plant Protection, BT290/16 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 3306736	no	yes	New data for new formulation, not previously submitted nor evaluated	NPP	N
KMP 2.2.1	Buccella, M.	2017	Final report: Physical-Chemical properties of I1136AA product before and after five cycles of freeze/thawing Natural Plant Protection, BT288/16 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 3306737	no	yes	New data for new formulation, not previously submitted nor evaluated	NPP	N
KMP 2.3	Paulus, J.	2006	STATEMENT CONCERNING THE EXPLOSIVE PROPERTIES OF CARPOVIRUSINE Arysta LifeScience S.A.S., 06032201G958 Laus GmbH, Germany GLP/GEP: no Published: no PHY2006-786	no	no	not protected	ALS	Y KIIIM 2.3.1

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KMP 2.3	Paulus, J.	2006	STATEMENT CONCERNING THE OXIDIZING PROPERTIES OF CARPOVIRUSINE Arysta LifeScience S.A.S., 06032201G939 Laus GmbH, Germany GLP/GEP: no Published: no PHY2006-787	no	no	not protected	ALS	Y KIIIM 2.3.1
KMP 2.3	Paulus, J.	2010	Statement concerning the explosive properties of Car- povirusine Arysta LifeScience S.A.S. Laus GmbH, Germany GLP/GEP: no Published: no 3336026	no	Yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 2.3	Paulus, J.	2010	Statement concerning Explosive Properties 09072401G GLP: N/GEP: N Published: N 3306340	N	Y		ALS	
KMP 2.3	Paulus, J.	2010	Statement concerning Oxidising Properties 09072401G GLP: N/GEP: N Published: N 3306341	N	Y		ALS	

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KMP 2.3	Paulus, J.	2010	Statement concerning the oxidizing properties of Carpovirusine Arysta LifeScience S.A.S. Laus GmbH, Germany GLP/GEP: no Published: no 3336084	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.4	Paulus, J.	2006	Final report: Determination of the flash point of Carpovirusine according to EU A.9 Arysta LifeScience S.A.S., 06032201G964 Laus GmbH, Germany GLP: yes Published: no 3336126	no	no	not protected	ALS	Y KIIIM 2.3.2
KMP 2.4	Paulus, J.	2006	Final report: Determination of the auto ignition temperature of Carpovirusine according to EU A.15 Arysta LifeScience S.A.S., 06032201G962 Laus GmbH, Germany GLP: yes Published: no 3336160	no	no	not protected	ALS	Y KIIIM 2.3.2
KMP 2.4	Paulus, J.	2010b	DETERMINATION OF THE FLASH POINT OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO EU A.9 Arysta LifeScience S.A.S., 09072401G964 Laus GmbH, Germany GLP: yes Published: no 3306342	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N

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KMP 2.4	Paulus, J.	2010c	DETERMINATION OF THE AUTO IGNITION TEMPERATURE OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO EU A.15 Arysta LifeScience S.A.S., 09072401G962 Laus GmbH, Germany GLP: yes Published: no 3306343	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.5	Kang, J.	2005	DETERMINATION OF THE STORAGE STABILITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1
KMP 2.5	Cheng, K.M.	2013	"ARY-0453A-042" - DETERMINATION OF THE APPEARANCE AND PH VALUE OF A SAMPLE OF CARPOVIRUSINE FORMULATION Arysta LifeScience S.A.S., OA02383 Oxford Analytical Ltd., Bicester, Oxon GLP: yes Published: no 3306344	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.5	Paulus, J.	2011	DETERMINATION OF THE SHELF LIFE OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO THE GUIDELINES OF CROPLIFE INTERNATIONAL Arysta LifeScience S.A.S., 09072401G001 Laus GmbH, Germany GLP: yes Published: no 3306345	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N

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KMP 2.5	Morgan, L.	2012	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER 12 MONTHS AT 4°C Arysta LifeScience S.A.S., TM/10/006/2 Battelle UK LTD. GLP: yes Published: no 3306346	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.5	Morgan, L.	2010a	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER FREEZE-THAW CYCLING Arysta LifeScience S.A.S., TM/10/005/1 Battelle UK LTD. GLP: yes Published: no 3306347	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.6	Kang, J.	2005	DETERMINATION OF THE STORAGE STABILITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1
KMP 2.6	Morgan, L.	2010b	VISCOSITY OF CARPOVIRUSINE Arysta LifeScience S.A.S., TM/10/004/1 Battelle UK LTD. GLP: yes Published: no 3306348	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N

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KMP 2.6	Paulus, J.	2010d	DETERMINATION OF THE SURFACE TENSION OF AN AQUEOUS SOLUTION OF CAR- POVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO OECD 115 RESP. EU A.5 Arysta LifeScience S.A.S., 09072401G960 Laus GmbH, Germany GLP: yes Published: no 3306349	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 2.7.2	Kang, J.	2005	DETERMINATION OF THE STORAGE STABIL- ITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1
KMP 2.7.2	Paulus, J.	2010e	DETERMINATION OF THE PERSISTENT FOAM- ING OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO CIPAC, MT 47.2 Arysta LifeScience S.A.S., 09072401G968 Laus GmbH, Germany GLP: yes Published: no 3306350	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 2.7.3	Kang, J.	2005	DETERMINATION OF THE STORAGE STABIL- ITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1

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KMP 2.7.3	Paulus, J.	2011	DETERMINATION OF THE SHELF LIFE OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO THE GUIDELINES OF CROPLIFE INTERNATIONAL Arysta LifeScience S.A.S., 09072401G001 Laus GmbH, Germany GLP: yes Published: no 3306351	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.3	Morgan, L.	2012	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER 12 MONTHS AT 4°C Arysta LifeScience S.A.S., TM/10/006/2 Battelle UK LTD. GLP: yes Published: no 3306352	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.3	Morgan, L.	2010a	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER FREEZE-THAW CYCLING Arysta LifeScience S.A.S., TM/10/005/1 Battelle UK LTD. GLP: yes Published: no 3306353	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.4	Kang, J.	2005	DETERMINATION OF THE STORAGE STABILITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1

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KMP 2.7.4	Paulus, J.	2011	DETERMINATION OF THE SHELF LIFE OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO THE GUIDELINES OF CROPLIFE INTERNATIONAL Arysta LifeScience S.A.S., 09072401G001 Laus GmbH, Germany GLP: yes Published: no 3306354	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.4	Morgan, L.	2012	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER 12 MONTHS AT 4°C Arysta LifeScience S.A.S., TM/10/006/2 Battelle UK LTD. GLP: yes Published: no 3306355	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.4	Morgan, L.	2010a	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER FREEZE-THAW CYCLING Arysta LifeScience S.A.S., TM/10/005/1 Battelle UK LTD. GLP: yes Published: no 3306356	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.7	Kang, J.	2005	DETERMINATION OF THE STORAGE STABILITY CHARACTERISTICS OF CARPOVIRUSINE SC FORMULATION Arysta LifeScience S.A.S., CEMR-1975 Natural Plant Protection, Pau GLP/GEP: yes Published: no PHY2006-513	no	no	not protected	ALS	Y KIIIM 2.1

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KMP 2.7.7	Paulus, J.	2011	DETERMINATION OF THE SHELF LIFE OF CARPOVIRUSINE (1X10 ¹³ GV/L, SC) ACCORDING TO THE GUIDELINES OF CROPLIFE INTERNATIONAL Arysta LifeScience S.A.S., 09072401G001 Laus GmbH, Germany GLP: yes Published: no 3306357	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.7	Morgan, L.	2012	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER 12 MONTHS AT 4°C Arysta LifeScience S.A.S., TM/10/006/2 Battelle UK LTD. GLP: yes Published: no 3306358	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N
KMP 2.7.7	Morgan, L.	2010a	PHYSICAL AND CHEMICAL PROPERTIES OF CARPOVIRUSINE: STORAGE STABILITY AFTER FREEZE-THAW CYCLING Arysta LifeScience S.A.S., TM/10/005/1 Battelle UK LTD. GLP: yes Published: no 3306359	no	yes	New data for new formulation, not previously submitted nor evaluated	ALS	N

A2.3 Product 2 Madex

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 2.1	Andermatt, M.	2000	MADEX:FILE OF THE FORMULATED PRODUCT (PHYSICAL AND CHEMICAL PROPERTIES) Andermatt Biocontrol GmbH / Probis GmbH, not applicable Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no PHY2006-382	no	no	not protected	PKA	Y KIIIM 2.1
KMP 2.2	Walter, D.	2006	MADEX-3 YEAR STORAGE STABILITY AT 5°C (VALUES AFTER 24 MONTHS OF STORAGE) Andermatt Biocontrol GmbH / Probis GmbH, 20041161/01-PCTY GAB Biotechn. GmbH & GAB Analytik GmbH, Niefern-Öschelbronn GLP: yes Published: no PHY2007-80	no	no	not protected	PKA	Y KIIIM 2.2
KMP 2.2	Fanger, U.	2007	7 DAY STORAGE STABILITY OF MADEX AT 0 °C Andermatt Biocontrol AG, CH, not applicable Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 1692517	no	no	not protected	ABA	Y KIIIM 2.2
KMP 2.2	Walter, D.	2008	Final report: Madex - 3.5 year storage stability at 5°C Andermatt Biocontrol AG, CH, 20041161/01-PCTY eurofins-GAB GmbH, Niefern-Öschelbronn, Germany GLP: yes Published: no 3335626	no	yes	New data for existing formulation, not previously submitted nor evaluated	ABA	N

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KMP 2.5	Walter, D.	2004	PH OF THE FORMULATION MADEX Andermatt Biocontrol GmbH / Probis GmbH, 20041161/01-PCPH GAB Biotechn. GmbH & GAB Analytik GmbH, Niefern-Öschelbronn GLP: yes Published: no PHY2005-553	no	no	not protected	PKA	Y KIIIM 2.3.3
KMP 2.6	Andermatt, M.	2000	MADEX:FILE OF THE FORMULATED PRODUCT (PHYSICAL AND CHEMICAL PROPERTIES) Andermatt Biocontrol GmbH / Probis GmbH, not applicable Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no PHY2006-382	no	no	not protected	PKA	Y KIIIM 2.3.4
KMP 2.6	Walter, D.	2004	SURFACE TENSION OF THE FORMULATION MADEX Andermatt Biocontrol GmbH / Probis GmbH, 20041161/01-PCST GAB Biotechn. GmbH & GAB Analytik GmbH, Niefern-Öschelbronn GLP: yes Published: no PHY2005-554	no	no	not protected	PKA	Y KIIIM 2.3.4
KMP 2.6	Franke J.	2005	CAPEX - KINEMATIC VISCOSITY OECD 114 Andermatt Biocontrol AG, CH, 20050183.03 Siemens AG, Prozess-Sicherheit, Frankfurt am Main, Germany GLP: yes Published: no 1692520	no	no	not protected	ABA	Y KIIIM 2.3.4

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KMP 2.7	Walter, D.	2004	RELATIVE DENSITY OF MADEX Andermatt Biocontrol GmbH / Probis GmbH, 20041161/01-PCRD GAB Biotechn. GmbH & GAB Analytik GmbH, Niefern-Öschelbronn GLP: yes Published: no PHY2005-559	no	no	not protected	PKA	Y KIIIM 2.5
KMP 2.7.2	Fanger, U.	2005	PERSISTENT FOAM (CIPAC MT47.1) FOAMING OF SUSPENSION CONCENTRATES (CIPAC MT47.2) OF MADEX CAPEX CRYPTEX Andermatt Biocontrol GmbH / Probis GmbH, CIPAC MT 47 Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no PHY2006-392	no	no	not protected	PKA	Y KIIIM 2.4.2
KMP 2.7.3	Fanger, U.	2005	SUSPENSIBILITY (CIPAC MT 161) OF MADEX Andermatt Biocontrol GmbH / Probis GmbH, not applicable Andermatt Biocontrol GmbH, Germany GLP/GEP: no Published: no PHY2005-556	no	no	not protected	PKA	Y KIIIM 2.4.3
KMP 2.7.3	Fanger, U.	2005c	SPONTANEITY OF DISPERSION (CIPAC MT 160) OF MADEX Andermatt Biocontrol AG, CH, not applicable Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no PHY2005-560	no	no	not protected	ABA	Y KIIIM 2.4.3

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KMP 2.7.4	Fanger, U.	2005d	SIEVE ANALYSIS (CIPAC MT59) OF MADEX CAPEX CRYPTEX Andermatt Biocontrol GmbH / Probis GmbH, not applicable Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no PHY2005-557	no	no	not protected	PKA	Y KIIIM 2.4.4
KMP 2.7.7	Fanger, U.	2005e	POURABILITY (CIPAC MT 148) OF MADEX CAPEX CRYPTEX Andermatt Biocontrol GmbH / Probis GmbH, not applicable Andermatt Biocontrol GmbH, Germany GLP/GEP: no Published: no PHY2006-397	no	no	not protected	PKA	Y KIIIM 2.4.7

A2.4 Product 3 Madex Twin

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 2.2/01	Walter, D.	2008	MADEX 3.5 YEAR STORAGE STABILITY AT 5°C Andermatt Biocontrol AG, CH, 20041161/01-PCTY eurofins-GAB GmbH, Niefern-Öschelbronn, Germany GLP: yes Published: no	no	yes	New data for new formulation, not previously submitted nor evaluated	ABA	N

A2.5 Product 4 Virgo

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 2.1	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.1
KMP 2.2	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.2
KMP 2.2	Fifi, A.	2006	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/L, SC) AT ROOM TEMPERATURE FOR ONE YEAR - INTERIM REPORT AFTER 6 MONTHS OF STORAGE Sipcam S.p.A., BT015/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 3335406	no	no	not protected	SIP	Y KIIIM 2.2

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KMP 2.5	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.3.3
KMP 2.6	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.3.4
KMP 2.6	Lucini, L.	2005	SURFACE TENSION OF THE PRODUCT VIRGO Sipcam S.p.A., 014/2005 Research Centre "E. Gagliardini", Salerano sul Lambro, Italy GLP: yes Published: no PHY2006-369	no	no	not protected	SIP	Y KIIIM 2.3.4

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KMP 2.7	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.5
KMP 2.7.2	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.4.2
KMP 2.7.3	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.4.3

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KMP 2.7.4	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.4.4
KMP 2.7.7	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no PHY2006-364	no	no	not protected	SIP	Y KIIIM 2.4.7

A.3 Data on application

A3.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously sub- mitted Y/N* If Y => old data point
B 3.5	Fritsch, E., Undorf- Spahn, K., Kienzle, J., Zebitz, C., Huber, J.	2006	Apfelwickler-Granulovirus: Unterschiede in der Empfindlichkeit lokaler Apfelwickler- Populationen. Mitteilungen aus der Biologischen Bundesanstalt, 400:310 GLP: no Published: yes	No	No			No
B 3.5	Sauphanor, B., Ber- ling, M., Toubon, J.F., Reyes, M., Delatte, J.	2006	Carpocapse des pommes cas de résistance aux virus de la granulose dans le Sud-Est Phytoma, 590:24-27 GLP: no Published: yes	No	No			no
B 3.5	Schmitt, A., Huber, J., Sauphanor, B., Jehle, J.A.	2008	<i>Cydia pomonella</i> zeigt keine Kreuzresistenz zwischen Apfelwicklergranulovirus und Insekti- ziden. Mitteilungen aus dem Julius-Kühn-Institut, 417:427 GLP: no Published: yes	No	No			no

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B 3.5	Eberle, K.E., Asser-Kaiser, S., Sayed, S.M., Nguyen, H.T., Jehle, J.A.	2008	Overcoming the resistance of codling moth against conventional <i>Cydia pomonella</i> granulovirus (CpGV-M) by a new isolate CpGV-I12 Journal of Invertebrate Pathology, 98:293-298 GLP: no Published: yes	No	No			no
B 3.5	Eberle, K.E., Jehle, J.A.	2006	Field resistance of codling moth against <i>Cydia pomonella</i> granulovirus (CpGV) is autosomal and incompletely dominant inherited. Journal of Invertebrate Pathology, 93:201-206 GLP: no Published: yes	No	No			no
B 3.5	Asser-Kaiser, S., Fritsch, E., Undorf-Spahn, K., Kienzle, J., Eberle, K.E., Gund, N.A., Reineke, A., Zebitz, C.P.W., Heckel, D.G., Huber, J., Jehle, J.A.	2007	Rapid Emergence of Baculovirus Resistance in Codling Moth Due to Dominant, Sex-Linked Inheritance Science, 317: 1916-1918 GLP: no Published: yes	No	No			no
B 3.5	Fritsch, E., Undorf-Spahn, K., Huber, J.	2008	Stabilität der Resistenz des Apfelwicklers gegenüber dem CpGV mit und ohne Selektionsdruck. Mitteilungen aus dem Julius-Kühn-Institut, 417:427-428 GLP: no Published: yes	No	No			no

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B 3.5	Jehle, J.A., Blissard, G.W., Bonning, B.C., Cory, J.S., Herniou, E.A., Rohrmann, G.F., Theilmann, D.A., Thiem, S.M., Vlak, J.M.	2006	On the classification and nomenclature of bacu- loviruses: A proposal for revision. Archives of Virology, 151: 1257-1266 GLP: no Published: yes	No	No			no
B 3.5	Anonymous	2016	Literature review report on biological properties GLP: no Published: no	No	No			no
B 3.5	Schmitt, A., Bisutti, I.L., Ladurner, E., Benuzzi, M., Sauphanor, B., Kienzle, J., Zingg, D., Undorf-Spahn, K., Fritsch, E., Huber, J., Jehle, J.A.	2013	The occurrence and distribution of resistance of codling moth to <i>Cydia pomonella</i> granulovirus in Europe Journal of Applied Entomology, 137:641-649 GLP: no Published: yes	No	No			no
B 3.5	Zichová, T., Falta, V., Kocourek, F., Stará, J.	2011	Differences in the susceptibility of codling moth populations to <i>Cydia pomonella</i> granulovirus in the Czech Republic HortScience, 38: 21-26 GLP: no Published: yes	No	No			no

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Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously sub- mitted Y/N* If Y => old data point
B 3.5	Zichová T., Stará, J., Kundu, J. K., Eberle, K. E., Jehle, J. A.	2013	Resistance to <i>Cydia pomonella</i> granulovirus follows a geographically widely distributed inher- itance type within Europe Biocontrol, 58(4):525-534 GLP: no Published: yes	No	No			no
B 3.5	Asser-Kaiser, S., Heckel, D.G., Jehle, J.A.	2010	Sex linkage of CpGV resistance in a heterogene- ous field strain of the codling moth <i>Cydia pomo- nella</i> (L.) Journal of Invertebrate Pathology, 103:59-64 GLP: no Published: yes	No	No			no
B 3.5	Asser-Kaiser, S., Radke, P., El-Salamouny, S., Winstanley, D., Jehle, J.A.	2011	Baculovirus resistance in codling moth (<i>Cydia pomonella</i> L.) caused by early block of virus replication Virology, 410(2):360-367 GLP: no Published: yes	No	No			no
B 3.5	Undorf-Spahn, K., Fritsch, E., Huber, J., Kienzle, J., Zebitz, C.P.W., Jehle, J.A.	2012	High stability and no fitness costs of the re- sistance of codling moth to <i>Cydia pomonella</i> granulovirus (CpGV-M) Journal of Invertebrate Pathology, 111:136-142 GLP: no Published: yes	No	No			no

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B 3.5	Gund, N.A., Wagner, A., Timm, A.E., Schulze-Bopp, S., Jehle, J.A., Johannsen, J., Reine- ke, A.	2012	Genetic analysis of <i>Cydia pomonella</i> (Lepidop- tera: Tortricidae) populations with different levels of sensitivity towards the <i>Cydia pomonella</i> granu- lovirus (CpGV) Genetically engineered organism, Publisher: CRC Press, 140:235-247 GLP: no Published: yes	No	No			no
B 3.5	Berling, M., Sauphanor, B., Bon- homme, A., Sieg- wart, M., Lopez- Ferber, M.	2013	A single sex-linked dominant gene does not fully explain the codling moth's resistance to granulo- virus Pest Management Science, 69:1261-1266 GLP: no Published: yes	No	No			no
B 3.5	Gebhardt, M.M., Eberle, K.E., Radtke, P., Jehle, J.A.	2014	Baculovirus resistance in codling moth is virus isolate-dependent and the consequence of a muta- tion in viral gene <i>pe38</i> PNAS, 111: 15711-15716 GLP: no Published: yes	No	No			no
B 3.5	Berling, M., Blache- re-Lopez, C., Souabere, O., Lery, X., Bonhomme, A., Sauphanor, B., Lopez-Ferber, M.	2009	<i>Cydia pomonella</i> granulovirus genotypes over- come virus resistance in the codling moth and improve virus efficiency by selection against resistant hosts Applied and Environmental Microbiology, 75:925-930 GLP: no Published: yes	No	No			no

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B 3.5	Graillot, B., Berling, M., Blachere-López, C., Siegwart, M., Besse, S., López-Ferber, M.	2014	Progressive Adaption of a CpGV Isolate Codling Moth Populations Resistant to CpGV-M Viruses, 6: 5135-5144 GLP: no Published: yes	No	No			no
B 3.5	Graillot, B., Bayle, S., Blachere-Lopez, C., Besse, S., Siegwart, M., Lopez-Ferber, M.	2016	Biological Characteristics of Experimental Genotype Mixtures of <i>Cydia Pomonella</i> Granulovirus (CpGV): Ability to Control Susceptible and Resistant Pest Populations Viruses, 147: 1-12 GLP: no Published: yes	No	No			no
B 3.5	Schulze-Bopp, S., Jehle, J. A.	2016	Development of a direct test of baculovirus resistance in wild codling moth populations Journal of Applied Entomology, 137: 153-160 GLP: no Published: yes	No	No			no

A3.2 Product 1 Carpovirusine

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 6.5	Young, S.	2005	PERSISTENCE OF VIRUSES IN THE ENVIRON- MENT not available, not applicable not available GLP/GEP: no Published: no	no	no	not protected		Y KIIIM 6.3

A3.3 Product 2 Madex

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 3.9	Anonymous	1900a	GRANUPOM-LABEL OF THE FORMULATION Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable not applicable GLP/GEP: no Published: no	no	no	not protected	PKA	Y KIIIM 3.8
KMP 3.9	Anonymous	1900b	MADEX-GRANULOVIRUS FOR THE BIOLOGI- CAL CONTROL OF CODLING MOTH (CYDIA POMONELLA) Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable not applicable GLP/GEP: no Published: no	no	no	not protected	PKA	Y KIIIM 3.8

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 6.3	Roush, R.T.	1998	STRATEGIES FOR RESISTANCE MANAGEMENT NOT AVAILABLE, NOT APPLICABLE GLP/GEP: NO PUBLISHED: YES	no	no	not protected	-	Y KHIIM 3.2
KMP 8	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes	no	no	not protected	-	Y KHIIM 8

A3.4 Product 3 Madex Twin

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 3.10	Sauer AJ, Fritsch E, Undorf-Spahn K, Nguyen P, Marec F, Heckel DG, Jehle JA	2017	Novel resistance to Cydia pomonella granulo- virus (CpGV) in codling moth shows autoso- mal and dominant inheritance and confers cross-resistance to different CpGV genome groups, not applicable not applicable, PLoS ONE GLP/GEP: no Published: yes	no	no	not protected		N

A3.5 Product 4 Virgo

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 3.9	Anonymous	2005	PROPOSED LABEL FOR NORTHERN AND SOUTHERN EU Sipcam S.p.A., not applicable not applicable GLP/GEP: no Published: no	no	no	not protected	SIP	Y KIIIM 3.8
KMP 8	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes	no	no	not protected	-	Y KIIIM 8

A.4 Further information

A4.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMA 3.7	Frommer, W., Ag- er, B., Archer, G., Collins, C.H., Do- nikian, R., Frontali, C., Hamp, S., Houwink, E.H., Küenzi, M.T., Krämer, P., Lagast, H., Lund, S., Mah- ler, J.L., Normand- Plessier, F., Sargeant, K., Tuijnburg Muijs, G., Vranck, S.P., Werner, R.G.	1989	SAFETY PRECAUTIONS FOR HANDLING MI- CROORGANISMS OF DIFFERENT RISK CLASSES not available, not applicable Applied Microbiology and Biotechnology, 30, 541-552 GLP/GEP: no Published: yes CHE2003-324	no	no	not protected	-	Y KIIM 3.7
KMA 3.7	Anonymous	2002	Material safety data sheet – Cydia pomonella granulo- virus (CpGV) Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable not applicable GLP/GEP: no Published: no CHE2003-324	no	no	not protected	PKA	Y KIIM 3.7

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KMA 3.7	Anonymous	2005	Material Safety data sheet – Cydia pomonella Granulosis Virus (CpGV) Sipcam S.p.A., not applicable not applicable GLP/GEP: no Published: no CHE2006-554	no	no	not protected	SIP	Y KIIM 3.7
KMA 3.7	Anonymous	2005	MATERIAL SAFETY DATA SHEET OF CPGV Arysta LifeScience S.A.S. not available GLP/GEP: no Published: no CHE2006-821	no	no	not protected	ALS	Y KIIM 3.7
KMA 3.7	Anonymous	2017	Material safety data sheet - Technical concentrate CpGV Natural Plant Protection Natural Plant Protection, Pau GLP/GEP: no Published: no 3470086	no	yes	New data for new formulation, not previously submitted nor evaluated	NPP	
KMA 3.7	Kessler	2016	Safety data sheet - CpGV Technical grade Andermatt Biocontrol AG GLP/GEP: no Published: no 3470088	no	yes	protected	ABA	

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KMA 3.9	Frommer, W., Agger, B., Archer, G., Collins, C.H., Donikian, R., Frontali, C., Hamp, S., Houwink, E.H., Küenzi, M.T., Krämer, P., Lagast, H., Lund, S., Mahler, J.L., Normand-Plessier, F., Sargeant, K., Tuijnenburg Muijs, G., Vranich, S.P., Werner, R.G.	1989	SAFETY PRECAUTIONS FOR HANDLING MICROORGANISMS OF DIFFERENT RISK CLASSES not available, not applicable Applied Microbiology and Biotechnology, 30, 541-552 GLP/GEP: no Published: yes CHE2003-324	no	no	not protected	-	Y KIIM 3.7
KMA 3.9	Probis GmbH	2002	Material safety data sheet – Cydia pomonella granulovirus (CpGV) Andermatt Biocontrol GmbH / Probis GmbH, not applicable not applicable GLP/GEP: no Published: no CHE2003-324	no	no	not protected	PKA	Y KIIM 3.9
KMA 3.9	BioTecnologie B.T.S.r.l.	2005	Material Safety data sheet – Cydia pomonella Granulosis Virus (CpGV) Sipcam S.p.A., not applicable not applicable GLP/GEP: no Published: no CHE2006-554	no	no	not protected	SIP	Y KIIM 3.9

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KMA 3.9	Anonymous	2005	MATERIAL SAFETY DATA SHEET OF CPGV Arysta LifeScience S.A.S. not available GLP/GEP: no Published: no CHE2006-821	no	no	not protected	ALS	Y KIIM 3.9
KMA 3.9	Anonymous	2017	Material safety data sheet - Technical concentrate CpGV Natural Plant Protection Natural Plant Protection, Pau GLP/GEP: no Published: no 3470087	no	yes	New data for new formulation, not previously submitted nor evaluated	NPP	
KMA 3.9	Kessler	2016	Safety data sheet - CpGV Technical grade Andermatt Biocontrol AG GLP/GEP: no Published: no 3470089	no	yes	protected	ABA	

A4.2 Product 1 Carpovirusine

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
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Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 4.1	Anonymous	2004	Specifications of 1L PEHD bottle Alcion and measures of its suitability Arysta LifeScience S.A.S., not stated ALCION Plasticos S.L., Spain GLP/GEP: no Published: no PHY2006-510	no	no	not protected	ALS	Y KIIIM 4.2
KMP 4.1	Anonymous	2009	SPECIFICATIONS OF 0.5L PEHD BOTTLE AG-ROCHEM Arysta LifeScience S.A.S., not stated PROMENS, France GLP/GEP: no Published: no 3306360	no	no	not protected	ALS	N
KMP 4.1	Anonymous	2006	SPECIFICATIONS OF 1L PEHD BOTTLE AGRO-CHEM Arysta LifeScience S.A.S., not stated Polimoon France GLP/GEP: no Published: no 3306361	no	no	not protected	ALS	N
KMP 4.1	Anonymous	2005	CERTIFICATE OF AGREEMENT OF PACKAGING TYPE 1L Arysta LifeScience S.A.S., 6717 BVT, Bureau de Vérifications Technique, France GLP/GEP: no Published: no 3306362	no	no	not protected	ALS	N

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KMP 4.1	Anonymous	2008	SPECIFICATIONS OF 5L PEHD BOTTLE AGRO-CHEM Arysta LifeScience S.A.S., SPEC 5 AO-63 GB Chesapeake Plastics S.A.S., France GLP/GEP: no Published: no 3306363	no	no	not protected	ALS	N
KMP 4.1	Anonymous	2004	CERTIFICATE OF AGREEMENT OF PACKAGING TYPE 5L Arysta LifeScience S.A.S., 6434 BVT, Bureau de Vérifications Technique, France GLP/GEP: no Published: no 3306364	no	no	not protected	ALS	N
KMP 4.4	Anonymous	2005	Material safety data sheet – CARPOVIRUSINE Arysta LifeScience S.A.S., not stated Natural Plant Protection, Pau GLP/GEP: no Published: no CHE2006-827	no	no	not protected	ALS	Y KIIIM 4.6
KMP 4.4	Anonymous	2016	Material safety data sheet – I1136aa Arysta LifeScience S.A.S., not stated Natural Plant Protection, Pau GLP/GEP: no Published: no 3306365	no	no	not protected	ALS	N
KMP 4.5	Anonymous	2005	Material safety data sheet – CARPOVIRUSINE Arysta LifeScience S.A.S., not stated Natural Plant Protection, Pau GLP/GEP: no Published: no CHE2006-827	no	no	not protected	ALS	Y KIIIM 4.8

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KMP 4.5	Anonymous	2016	Material safety data sheet – I1136aa Arysta LifeScience S.A.S., not stated Natural Plant Protection, Pau GLP/GEP: no Published: no 3306366	no	no	not protected	ALS	N

A4.3 Product 2 Madex

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 4.1	Zingg, D.	2004	SPECIFICATION OF THE CONTAINERS FOR MADEX AND CAPEX (GERMAN ORIGINAL) Andermatt Biocontrol GmbH / Probis GmbH, not applicable not applicable GLP/GEP: no Published: no PHY2005-561	no	yes	protected	PKA	Y KIIIM 4.1
KMP 4.1	Anonymous	2005a	CHEMICAL COMPATIBILITY OF PET Andermatt Biocontrol GmbH / Probis GmbH, not applicable Owens-Illinois GLP/GEP: no Published: no PHY2006-422	no	no	not protected	PKA	Y KIIIM 4.2
KMP 4.4	Anonymous	2005b	SAFETY DATA SHEET MADEX Andermatt Biocontrol GmbH / Probis GmbH, not applicable not available GLP/GEP: no Published: no CHE2006-570	no	no	not protected	PKA	Y KIIIM 4.7
KMP 4.4/01	Kessler, P.	2016	SAFETY DATA SHEET MADEX Andermatt Biocontrol AG, CH, not stated Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 3306567	no	no	not protected	ABA	N

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 4.5	Anonymous	2005b	SAFETY DATA SHEET MADEX Andermatt Biocontrol GmbH / Probis GmbH, not applicable not available GLP/GEP: no Published: no CHE2006-570	no	no	not protected	PKA	Y KIIIM 4.7
KMP 4.5/01	Kessler, P.	2016	SAFETY DATA SHEET MADEX Andermatt Biocontrol AG, CH, not stated Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 3306568	no	no	not protected	ABA	N

A4.4 Product 3 Madex Twin

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 4.1	Zingg, D.	2004	SPECIFICATION OF THE CONTAINERS FOR MADEX AND CAPEX (GERMAN ORIGINAL) Andermatt Biocontrol GmbH / Probis GmbH, not applicable not applicable GLP/GEP: no Published: no PHY2005-561	no	no	not protected	PKA	Y KIIIM 4.1

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KMP 4.4	Anonymous	2005	SAFETY DATA SHEET MADEX Andermatt Biocontrol GmbH / Probis GmbH, not applicable not available GLP/GEP: no Published: no CHE2006-570	no	no	not protected	PKA	Y KIIIM 4.7
KMP 4.4/01	Kessler, P.	2016	SAFETY DATA SHEET MADEX TWIN Andermatt Biocontrol AG, CH, not stated Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 3306632	no	no	not protected	ABA	N
KMP 4.5	Anonymous	2005	SAFETY DATA SHEET MADEX Andermatt Biocontrol GmbH / Probis GmbH, not applicable not available GLP/GEP: no Published: no CHE2006-570	no	no	not protected	PKA	Y KIIIM 4.7
KMP 4.5/01	Kessler, P.	2016	SAFETY DATA SHEET MADEX TWIN Andermatt Biocontrol AG, CH, not stated Andermatt Biocontrol AG, Grossdietwil, Switzerland GLP/GEP: no Published: no 3306633	no	no	New data for existing formulation, not previously submitted nor evaluated	ABA	N

A4.5 Product 4 Virgo

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 4.1	Anonymous	1989	DESCRIPTION OF PACKAGING - SALCONPLAST DISEGNO NR. 229 Sipcam S.p.A., not applicable Supplier GLP/GEP: no Published: no PHY2006-370	no	no	not protected	SIP	Y KIIIM 4.1
KMP 4.1	Anonymous	1900	DESCRIPTION OF PACKAGING - SALCONPLAST DISEGNO NR. 229 Sipcam S.p.A., not applicable Supplier GLP/GEP: no Published: no PHY2006-370	no	no	not protected	SIP	Y KIIIM 4.2
KMP 4.4/01	Anonymous	2016	MATERIAL SAFETY DATA SHEET: VIRGO Serbios Srl, Italy, not applicable Serbios Srl, Italy GLP/GEP: no Published: no 3306683	no	no	not protected	SER	N
KMP 4.5/01	Anonymous	2016	MATERIAL SAFETY DATA SHEET: VIRGO Serbios Srl, Italy, not applicable Serbios Srl, Italy GLP/GEP: no Published: no 3306684	no	no	not protected	SER	N

A.5 Analytical methods

A5.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMA 4	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes	no	no	not protected	-	Y KIIM 4
KMA 4.1	Harvey, J.P., Volkman, L.E.	1983	BIOCHEMICAL AND BIOLOGICAL VARIATION OF CYDIA POMONELLA (CODLING MOTH) GRANULOSIS VIRUS not available, not applicable Virology, 124, 21-34 GLP/GEP: no Published: yes BWS2003-103	no	no	not protected	-	Y KIIM 4.1
KMA 4.1	Croizier, G.	2001	CARPOCAPSA POMONELLA GRANULOSIS VI- RUS ANALYSIS. NPP 1996 STANDARD AN NPP 2001 STANDARD Arysta LifeScience S.A.S., EP01630 Institut National de la Recherche Agronomique, France GLP/GEP: no Published: no BWS2006-83	no	no	not protected	ALS	Y KIIM 2.10

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KMA 4.1	Jehle, J.	2006a	COMPARATIVE RESTRICTION ANALYSIS CPGV (CARPOVIRUSINE, TECHNICAL CONCENTRATE, BATCH 1461/SMT) WITH CPGV (INRA MEXICAN ISOLATE) Arysta LifeScience S.A.S., ARY02 not available GLP/GEP: no Published: no BWS2006-86	no	no	not protected	ALS	Y KIIM 1.4.3.1
KMA 4.1	Croizier, G.	1996	COMPTE-RENDU D'ANALYSE not available, FL97070 Institut National de la Recherche Agronomique, France GLP/GEP: no Published: no	no	no	not protected		Y KIIM 1.4.3.1
KMA 4.1	Biache, G.	1998a	COMPARISON OF CPGV ISOLATE FROM CARPOVIRUSINE 2000 WITH DARMSTADT ISOLATE Arysta LifeScience S.A.S., not stated Institut National de la Recherche Agronomique, France GLP/GEP: no Published: no	no	no	not protected	ALS	Y KIIM 2.10
KMA 4.1	Huber, J.	1981	CODLING MOTH GRANULOSIS VIRUS: PROPAGATION AND BIOASSAY [GERMAN ORIGINAL] Mitteilungen der Deutschen Gesellschaft für Allgemeine Angewandte Entomologie 2, pp. 141-145, not available GLP/GEP: no Published: yes	no	no	not protected	-	Y KIIM 4.1

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KMA 4.1	Andermatt, M.	2004	QUALITY CONTROL: ANALYSIS OF THE ACTIVE INGREDIENT Andermatt Biocontrol AG, CH, not available not available GLP/GEP: no Published: no	no	no	not protected	ABA	Y KIIM 5.1
KMA 4.1	Bonhomme, A.	2006	PROCEDURE OF THE BIOLOGICAL TITRATION OF BATCHES AT NPP Arysta LifeScience S.A.S., not stated Natural Plant Protection, Pau GLP/GEP: no Published: no BWS2006-100	no	no	not protected	ALS	Y KIIM 1.4.1
KMA 4.1/01	Jehle, J., Eberle, K.	2009a	COMPARATIVE RESTRICTION ANALYSIS OF V15 Andermatt Biocontrol AG, CH, not stated DLR-Rheinpfalz, Neustadt, Germany GLP/GEP: no Published: no	no	yes	New data for active ingredient, not previously submitted nor evaluated	ABA	N
KMA 4.1/02	Jehle, J., Eberle, K.	2009b	COMPARATIVE RESTRICTION AND PHYLOGENETIC ANALYSIS OF V22 Andermatt Biocontrol AG, CH, not stated DLR-Rheinpfalz, Neustadt, Germany GLP/GEP: no Published: no	no	yes	New data for active ingredient, not previously submitted nor evaluated	ABA	N
KMA 4.1/03	Crook, N.E., James, J.D., Smith, I.R.L., Winstanley, D.	1997	COMPREHENSIVE PHYSICAL MAP OF THE CYDIA POMONELLA GRANULOVIRUS GENOME AND SEQUENCE ANALYSIS OF THE GRANULIN GENE REGION not available, not applicable Journal of General Virology, 78, 965-974 GLP/GEP: no Published: yes	no	no	not protected	-	N

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KMA 4.1/04	Luque, T., Finch, R., Crook, N., O'Reilly, D.R. Winstanley, D.	2001	THE COMPLETE SEQUENCE OF THE CYDIA POMONELLA GRANULOVIRUS GENOME not available, not applicable Journal of General Virology, 82, 2531-2547 GLP/GEP: no Published: yes	no	no	not protected	-	N
KMA 4.1/05	Jehle, J.	2006b	COMPARATIVE RESTRICTION ANALYSIS OF CPGV (NEUSTADT MEXICAN ISOLATE) WITH CPGV (MADEX PLUS) Andermatt Biocontrol AG, CH, not applicable Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP/GEP: no Published: no	no	yes	New data for active ingredient, not previously submitted nor evaluated	ABA	N
KMA 4.1/06	Jehle, J., Eberle, K.	2009c	COMPARATIVE RESTRICTION ANALYSIS OF CPGV CARPOVIRUSINE-R5 WITH CPGV (VIROSOFT), CPGV-E2 AND CPGV-M (NEUSTADT) Arysta LifeScience S.A.S., NPP_09.1 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP/GEP: no Published: no	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N
KMA 4.2	Biache, G.	1998b	DETECTION METHOD OF CYDIA POMONELLA GRANULOSIS VIRUS IN A SOIL SAMPLE Arysta LifeScience S.A.S., not stated not available GLP/GEP: no Published: no	no	no	not protected	ALS	Y KIIM 4.5.4

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KMA 4.2	Matt-Schmid, A.	2005a	VALIDATION OF AN ANALYTICAL METHOD FOR DETERMINATION OF CYDIA POMONELLA GRANULOVIRUS (CPGV) IN SOIL Sipcam S.p.A., GAB06 Dienstleistungszentrum Ländlicher Raum, Bad Kreuznach, Germany GLP: yes Published: no	no	no	not protected	SIP	Y KIIM 4.5.4
KMA 4.2	Jehle, J.	2004	VALIDATION OF AN ANALYTICAL METHOD FOR THE DETERMINATION OF CYDIA POMONELLA GRANULOVIRUS IN SURFACE WATER Andermatt Biocontrol GmbH / Probis GmbH, CPGV/2004-01 DLR-Rheinpfalz, Neustadt, Germany GLP/GEP: no Published: no	no	no	not protected	PKA	Y KIIM 4.5.5
KMA 4.2	Biache, G.	1998c	TRIAL PROTOCOL FOR DETERMINING RESIDUES OF CARPOVIRUSINE 2000 IN APPLES AND PEARS Arysta LifeScience S.A.S., MG/SC N° 1098 Institut National de la Recherche Agronomique, France GLP/GEP: no Published: no	no	no	not protected	ALS	Y KIIM 4.5
KMA 4.2	Matt-Schmid, A.	2005b	VALIDATION OF AN ANALYTICAL METHOD FOR DETERMINATION OF CYDIA POMONELLA GRANULOVIRUS (CPGV) IN WATER Sipcam S.p.A., GAB04 Dienstleistungszentrum Ländlicher Raum, Bad Kreuznach, Germany GLP: yes Published: no	no	no	not protected	SIP	Y KIIM 4.5.5

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 4.2	Jehle, J., Matt-Schmid, A	2006	VALIDATION OF AN ANALYTICAL METHOD FOR DETERMINATION OF CYDIA POMONELLA GRANULOVIRUS (CPGV) USED IN CARPOVIRUSINE (TECHNICAL CONCENTRATE) IN SURFACE WATER Arysta LifeScience S.A.S., ARY04 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP/GEP: no Published: no	no	no	not protected	ALS	Y KIIM 4.5.5

A5.2 Product 1 Carpovirusine

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 5.1	Winstanley, D.	2003	VALIDATION STUDY TO EVALUATE THE BIO-ASSAY METHOD TO BE USED FOR DETERMINING THE EFFICACY OF THE FORMULATED PRODUCT CARPOVIRUSINE Arysta LifeScience S.A.S., GLP2002W04 WARWICK HRI, United Kingdom GLP/GEP: no Published: no CHE2006-826	no	no	not protected	ALS	Y KIIM 5.2

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KMP 5.1	Wahl-Ermel, B., Jehle, J., Eberle, K.	2011	STORAGE STABILITY OF CARPOVIRUSINE Arysta LifeScience S.A.S., ARY06 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP: yes Published: no 3545752	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 5.1	Wahl-Ermel, B., Jehle, J.	2012	STORAGE STABILITY OF CARPOVIRUSINE Arysta LifeScience S.A.S., ARY07 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP: yes Published: no 3545751	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N
KMP 5.1	Besse, S.	2014	STORAGE MICROBIOLOGICAL STABILITY OF TWO BATCHES OF CARPOVIRUSINE AT 25°C DURING 1 MONTH, AT 4°C DURING 8 MONTHS AND AT -18°C DURING 12 MONTHS Arysta LifeScience S.A.S., 14/03 Natural Plant Protection, Pau GLP/GEP: no Published: no 3545790	no	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N

A5.3 Product 2 Madex

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 5.1	Andermatt, M.	2004	MADEX: ANALYSIS OF THE ACTIVE INGREDI- ENT Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable Andermatt Biocontrol GmbH, Germany GLP/GEP: no Published: no CHE2006-685	no	no	not protected	PKA	Y KIIIM 5.1.3
KMP 5.1	Anonymous	1900	THE BIOASSAY US USED FOR THE DETECTION OF EFFICACY OF A MADEX BATCH (GERMAN ORIGINAL) Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable not applicable GLP/GEP: no Published: no CHE2006-687	no	no	not protected	PKA	Y KIIIM 5.1.3
KMP 5.1	Walter, D.	2008	Final report: Madex - 3.5 year storage stability at 5°C Andermatt Biocontrol AG, CH, 20041161/01-PCTY eurofins-GAB GmbH, Niefern-Öschelbronn, Germany GLP: yes Published: no 3545737	no	yes	New data for existing formu- lation, not pre- viously submit- ted nor evaluat- ed	ABA	N
KMP 5.2	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes	no	no	not protected	-	Y KIIIM 5.4

A5.4 Product 3 Madex Twin

No references submitted.

A5.5 Product 4 Virgo

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 5.1	Fifi, A.	2005	BIOASSAY FOR DETERMINATION OF THE ACTIVE CYDIA POMONELLA GRANULOVIRUS BY DIET INCORPORATION TOXICITY TO CYDIA POMONELLA Sipcam S.p.A., MAG032/01 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no CHE2006-542	no	no	not protected	SIP	Y KIIIM 5.1.3
KMP 5.1	Fifi, A.P.	2005	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/LT, SC) Sipcam S.p.A., BT014/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP/GEP: no Published: no 3545715	no	no	not protected	SIP	Y KIIIM 2.2

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KMP 5.1	Fifi, A.	2006	PHYSICAL, CHEMICAL, TECHNICAL PROPERTIES AND SHELF LIFE OF VIRGO CYDIA POMONELLA GRANULOSIS VIRUS (2X10EXP13 GV/L, SC) AT ROOM TEMPERATURE FOR ONE YEAR Sipcam S.p.A., BT015/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 3545714	no	no	not protected	SIP	Y KIIIM 2.2
KMP 5.2	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes	no	no	not protected	-	Y KIIIM 5.4

A.6 Effects on human health

A6.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 5.1/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - EFFECTS ON HUMAN HEALTH Arysta LifeScience S.A.S., not applicable not available GLP/GEP: no Published: no BVL-3306472, ASB2017-11923	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N
KMA 5.1. KMA 5.2.2.1 KMA 5.6	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMENTAL APPLICATIONS INVOLVING BACULOVIRUS not available, not applicable ENV/JM/MONO, 1, 1-90 GLP/GEP: no Published: yes BVL-1913991, BVL-1914003, BVL-1940342, BVL-2187880, BVL-3414703, BVL-3414770, TOX2006-1036	no	no	not protected	-	Y KIIM 5.1
KMA 5.1.1	Gronowski, A.M., Hilbert, D.M., Sheehan, K.C.F., Garotta, G., Schreiber, R.D.	1999	BACULOVIRUS STIMULATES ANTIVIRAL EFFECTS IN MAMMALIAN CELLS not available, not applicable Journal of Virology, Dec. 1999, p. 9944-9951 GLP/GEP: no Published: yes BVL-3414704, TOX2006-1043	no	no	not protected	-	Y KIIM 5.1

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KMA 5.1.1	Ignoffo, C.M.	1973	EFFECTS OF ENTOMOPATHOGENS ON VERTEBRATES not available, not applicable Annals of the New York Academy of Sciences, 217, 141-172 GLP/GEP: no Published: yes BVL2019248, TOX9750934	no	no	not protected	-	Y KIIM 5.1
KMA 5.1.1 KMA 5.1.4	Burges, H.D., Croizier, G., Huber, J.	1980	A REVIEW OF SAFETY TESTS ON BACULOVIRUSES not available, not applicable Entomophaga 25 (4), 329-339 GLP/GEP: no Published: yes BVL-3448811, TOX2006-1679	no	no	not protected	-	Y KIIM 5.1
KMA 5.1.1 KMA 5.2.2.1 KMA 5.2.3 KMA 5.2.4 KMA 5.3	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUSES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes BVL-1913993, BVL-1939254, BVL-2019198, BVL-2019199, BVL-2019205, BVL-2019206, BVL-2019209, BVL-2019210, BVL-2019243, BVL-2019244, BVL-2019249, BVL-2019249, BVL-2019250, BVL-2019250, BVL-2019251, BVL-2019252, BVL-2019252, BVL-2019255, BVL-2019255, BVL-2019256, BVL-2019256, BVL-2112620, BVL-2112997, BVL-2390989, BVL-3416423, BVL-3414720, BVL-3414728, BVL-3414746, BVL-3414754, BVL-3414767, TOX2003-1179	no	no	not protected	-	Y KIIM 5.1

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KMA 5.1.2	Andermatt, M.	2002	SAFETY STATEMENT CONCERNING THE COD- LING-MOTH-GRANULOSIS-VIRUS-PRODUCT MADEX Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable not applicable GLP/GEP: no Published: no BVL-3414710, TOX2005-1346	no	no	not protected	PKA	Y KIIM 5.2
KMA 5.1.2 KMA 5.2.4	Gröner, A.	1990	CYDIA POMONELLA GRANULOSUS VIRUS (CPGV) HOE 083311 SUMMARY AND CONCLU- SIONS ON THE TOXICITY Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable AgrEvo, Hoechst and Schering, Marburg, Germany GLP/GEP: no Published: no BVL-3414708, TOX2005-1876	no	no	not protected	PKA	Y KIIM 5.2
KMA 5.1.2 KMA 5.1.3	Cardinalini, G.	2005	MEDICAL CONFIRMATION Sipcam S.p.A., not applicable not applicable GLP/GEP: no Published: no BVL-3414709, TOX2006-1048	no	no	not protected	SIP	Y KIIM 5.2
KMA 5.1.2	Lalisse, M.	2005	ANNUAL MEDICAL MONITORING ON MANU- FACTURING PLANT WORKERS REALISED BY THE MEDICAL OFFICER IN CHARGE OF FORE- SIGHT MEDICAL SURVEILLANCE Arysta LifeScience S.A.S., not stated A.H.I.R.P. Pau, French GLP/GEP: no Published: no BVL-2019153, BVL-2019154, BVL-2019155 TOX2006-1751	no	no	not protected	ALS	Y KIIM 5.2

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KMA 5.1.2	Binet, Ph.	1996	ETUDE RETROSPECTIVE DES DOSSIERS MEDICAUX DES PERSONNES AYANT TRAV- AILLE SUR LES BACULOVIRUS A L'UNITE DE LUTE BIOLOGIQUE Arysta LifeScience S.A.S., not stated Institut National de la Recherche Agronomique, France GLP/GEP: no Published: no BVL-2019156, BVL-2019157, BVL-2019157, BVL- 2019158, TOX2006-1752	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Corroyer, N.	1996	CERTIFICATE OF THE GROUPE DE RECHERCHE EN AGRICULTURE BIOLOGIQUE Arysta LifeScience S.A.S., not stated not available GLP/GEP: no Published: no BVL-2019159, BVL-2019160, TOX2006-1753	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Biache, G.	1996	CERTIFICATE OF THE INRA, FRENCH RE- SEARCH CENTER Arysta LifeScience S.A.S., not stated Institut National de la Recherche Agronomique, France GLP/GEP: no Published: no BVL-2019173, BVL-2019174, BVL-2019174, BVL- 2019175, TOX2006-2089	no	no	not protected	ALS	Y KIIM 5.2

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KMA 5.1.2	Verhaeghe, A.	2002	CERTIFICATE OF THE FRENCH EXPERI- MENTAL STATION IN NUTS Arysta LifeScience S.A.S., not stated SENURA, Station d'experimentation nucicole, Rhone- Alpes GLP/GEP: no Published: no BVL-2019178, BVL-2019179, TOX2006-2091	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	de Marcillac, O.	1996	CERTIFICATE OF THE CIVAM AGROBIO 47 (FRENCH ORIGINAL, ENGLISH TRANSLATION) Arysta LifeScience S.A.S., not stated CIVAM AGROBIO 47, Agen, French GLP/GEP: no Published: no BVL-2019161, BVL-2019162, BVL-2019163, BVL- 2019163, TOX2006-1754	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Ginoux, R.	1996	CERTIFICATE OF THE OMAG, FRENCH DIS- TRIBUTOR (FRECH ORIGINAL, ENGLISH TRANSLATION) Arysta LifeScience S.A.S., not stated omag, Molleges GLP/GEP: no Published: no BVL-2019164, BVL-2019165, BVL-2019166, BVL- 2019166, TOX2006-2086	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Guiraud, J.-M.	2002	CERTIFICATE OF THE OMAG Arysta LifeScience S.A.S., not stated omag, Molleges GLP/GEP: no Published: no BVL-2019182, BVL-2019183, TOX2006-2093	no	no	not protected	ALS	Y KIIM 5.2

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KMA 5.1.2	Clapier, A.	2002	CERTIFICATE OF THE MAISAGRI TARN & QUERCY Arysta LifeScience S.A.S., not stated Maisagri Tarn & Quercy, France GLP/GEP: no Published: no BVL-2019184, BVL-2019185, BVL-2019186, BVL- 2019186, TOX2006-2094	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Martel, F.	2002	CERTIFICATE OF THE FRENCH CHAMBRE D' AGRICULTURE DU LOIRET Arysta LifeScience S.A.S., not stated Chambre d'Agriculture du Haut-Rhin, France GLP/GEP: no Published: no BVL-2019192, TOX2006-2283	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Dourlent, M.	1996	CERTIFICATE OF ARCADA FRANCE, FRENCH TECHNICAL CENTER (FRENCH ORIGINAL, ENGLISH TRANSLATION) Arysta LifeScience S.A.S., not stated Arcada France GLP/GEP: no Published: no BVL-2019167, BVL-2019168, BVL-2019169, BVL- 2019169, TOX2006-2087	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Colombet, S.	1996	MINUTES CONCERNING THE USES OF CAR- POVIRUSINE BY THE MEMBERS OF GAB 05 GROUPEMENT D AGRICULTURE BIOLOGIQUE DES HAUTES ALPES not available, not applicable Organic farmig association GLP/GEP: no Published: yes BVL-2019170, BVL-2019171, BVL-2019172, BVL- 2019172, TOX2006-2088	no	no	not protected	-	Y KIIM 5.2

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KMA 5.1.2	Dupin, J.P.	2002	CERTIFICATE OF THE FRENCH AGRICULTURAL COOPERATIVES LES VERGERS D ANJOU not available, not applicable GLP/GEP: no Published: yes BVL-2019176, BVL-2019177, TOX2006-2090	no	no	not protected	-	Y KIIM 5.2
KMA 5.1.2	Toutain, P.	2002	CERTIFICATE OF THE FRENCH AGRICULTURAL COOPERATIVES "L'ARDÉCHOISE" Arysta LifeScience S.A.S., not stated l'ardéchoise coopérative agricole, French GLP/GEP: no Published: no BVL-2019187, BVL-2019188, TOX2006-2095	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2	Bourocher, G.	2002	CERTIFICATE OF THE FRENCH AGRICULTURAL COOPERATIVES "C.A.P.L. ARBORICULTURE" Arysta LifeScience S.A.S., not stated C.A.P.L. Arboriculture, Thouarce, French GLP/GEP: no Published: no BVL-2019189, BVL-2019190, TOX2006-2282	no	no	not protected	ALS	Y KIIM 5.2
KMA 5.1.2/01	Zingg, D.	2016	OCCUPATIONAL HEALTH STATEMENT Andermatt Biocontrol AG, CH, not applicable not available GLP/GEP: no Published: no BVL-3306473, ASB2017-11925	no	yes	New data for existing formulation, not previously submitted nor evaluated	ABA	N

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KMA 5.1.2/02	Dezza, A.	2016	OCCUPATIONAL HEALTH STATEMENT Sipcam S.p.A., not applicable not available GLP/GEP: no Published: no BVL-3306474, ASB2017-11926	no	yes	New data for existing formulation, not previously submitted nor evaluated	SIP	N
KMA 5.1.2/03	Soubabere, O.	2016	OCCUPATIONAL HEALTH STATEMENT - CARPOVIRUSINE Arysta LifeScience S.A.S., not applicable Natural Plant Protection, Pau GLP/GEP: no Published: no BVL-3306475, ASB2017-11924	no	yes	New data for existing formulation, not previously submitted nor evaluated	ALS	N
KMA 5.1.3	Koschmieder, R.	2002	MEDICAL CONFIRMATION (HAUSÄRZTLICHE BESCHEINIGUNG) Andermatt Biocontrol GmbH / Probis GmbH, not applicable Merck KGaA, Darmstadt, Germany GLP/GEP: no Published: no BVL-3414707, TOX2003-1145	no	no	not protected	PKA	Y KIIM 5.2
KMA 5.1.3	Cardinalini, G.	2005	MEDICAL CONFIRMATION Sipcam S.p.A., not applicable not applicable GLP/GEP: no Published: no Submitted in: KMA 5.1.2 TOX2006-1048	no	no	not protected	SIP	Y KIIM 5.2

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KMA 5.1.4 KMA 5.2.2.2 KMA 5.2.3 KMA 5.3	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes BVL-2110985, BVL-2111040, BVL-2111042, BVL-2111512, BVL-2112850, BVL-2112996, BVL-3414724, BVL-3414752, BVL, 3414766, BWS2003-90	no	no	not protected	-	Y KIIM 5.2.3
KMA 5.1.4	Xuebao, W.	1982	SAFETY TESTS OF A GV INSECTICIDE AGAINST CABBAGE BUTTERFLY PIERIS RA-PAE LARVAE RAE Serie A (1982) 70 (4) Nr. 2368, not available GLP/GEP: no Published: yes BVL-1937658, BVL-1939179, BVL-2112570, BVL-2112578, BVL-3414715, BVL-3414743, BVL-3414760, TOX2003-1156	no	no	not protected	-	Y KIIM 5.2.3
KMA 5.1.4	Heimpel, A.M., Buchanan, L.K.	1967	HUMAN FEEDING TESTS USING A NUCLEAR-POLYHEDROSIS VIRUS OF HELIOTHIS ZEA not available, not applicable Journal of Invertebrate Pathology 9, p. 55-57 GLP/GEP: no Published: yes BVL-1937618, BVL-2112381, BVL-3537246, TOX2003-1143	no	no	not protected	-	Y KIIM 5.2.3

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KMA 5.1.4	Burges, H.D., Croizier, G., Huber, J.	1980	A REVIEW OF SAFETY TESTS ON BACULOVIRUSES not available, not applicable Entomophaga 25 (4), 329-339 GLP/GEP: no Published: yes Submitted in: KMA 5.1.1 TOX2006-1679)	no	no	not protected	-	Y KIIM 5.2.3
KMA 5.2.1	[REDACTED]	1986	HOE 083311 OI LC08 A101 TESTING FOR SENSITISING PROPERTIES OF ON PIRPBRIGHT-WHITE GUINEA PIGS BY THE METHOD OF LANDSTEINER Andermatt Biocontrol GmbH / Probis GmbH, 861169, 86.1373 [REDACTED] GLP: yes Published: no BVL-1913997, BVL-1914002, BVL-1937613, BVL-2111615, BVL-2113001, BVL-2113010, BVL-3414712, TOX2003-1147	yes	no	not protected	PKA	Y KIIM 5.3.1
KMA 5.2.1 KMA 5.2.2.2	[REDACTED]	1992	HOE 083311; WATER MISCIBLE SUSPENSION CONCENTRATE: 2.2*10 EXP. 13 VIR./1 (CODE:) TESTING FOR RESPIRATORY SENSITIZATION IN THE MALE AND FEMALE PIRBRIGHT WHITE GUINEA PIG Andermatt Biocontrol GmbH / Probis GmbH, 90.0689, 91.1096 [REDACTED] GLP: yes Published: no BVL-1913999, BVL-1937619, BVL-1939021, BVL-2111618, BVL-2111621, BVL-2113004, BVL-2113012, TOX2003-1148	yes	no	not protected	PKA	Y KIIM 5.3.1

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KMA 5.2.2	████████	2005a	EXAMINATION OF VIRGO IN THE SKIN SENSITISATION TEST IN GUINEA PIGS ACCORDING TO MAGNUSSON AND KLIGMAN (MAXIMISATION TEST) Sipcam S.p.A., 18978/05 ████████████████████ ████████ GLP: yes Published: no BVL-3414714, TOX2006-1050	yes	no	not protected	SIP	Y KIIM 5.3.1
KMA 5.2.1	████████	1991a	ACUTE DERMAL SENSITIZATION STUDY (SUBDIVISION M, NO. 152A-15) OF CPGV PAST IN GUINEA PIGS (MAXIMIZATION TEST) Arysta LifeScience S.A.S., BE-MT-99-91-03-SIG-01 ████████████████████ GLP: yes Published: no BVL-2019195, BVL-2019197, BVL-2019778, BVL-2389442, TOX2006-2285	yes	no	not protected	ALS	Y KIIM 5.3.1
KMA 5.2.1	████████	1976	TESTING FOR SENSITISING PROPERTIES OF NUCLEAR POLYHEDROSIS VIRUS (NPV) IN GUINEA PIGS BY THE METHOD OF LANDSTEINER Andermatt Biocontrol GmbH / Probis GmbH, 148/76, A55527 ████████████████████ GLP/GEP: no Published: no BVL-1937599, BVL-2111592, BVL-2111603, BVL-3414711, BVL-3414734, TOX2003-1146	yes	no	not protected	PKA	Y KIIM 5.3.1

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KMA 5.2.1 KMA 5.2.2.3	Meinecke, C.F., McLane, W.C., Rehnborg, C.S.	1970	TOXICITY-PATHOGENICITY STUDIES OF NU- CLEAR-POLYHEDROSIS VIRUS OF HELIOTHIS ZEA IN WHITE MICE not available, not applicable GLP/GEP: no Published: yes BVL-3414738, BVL-3414768, BVL-3414773, TOX2006-1056	no	no	not protected	-	Y KIIM 5.3.1
KMA 5.2.1/07 1. additional sub- mission	Botham, P.A., Rat- tray, N.J., Wood- cock, D.R., Walsh, S.T., Hext, P.M.	1989	THE INDUCTION OF RESPIRATORY ALLERGY IN GUINEA-PIGS FOLLOWING INTRADERMAL INJECTION OF TRIMELLITIC ANHYDRIDE: ACOMPARISON WITH THE RESPONSE TO 2,4- DINITROCHLOROBENZENE not available, not stated Toxicol Lett, 47, 25-39 GLP/GEP: no Published: yes BVL-3306799, ASB2017-11928	no	no	not protected	-	N
KMA 5.2.1/08 1. additional sub- mission	Hackl, E., Pacher- Zavisin, M., Sed- man, L., Arthaber, S., Bernkopf, U., Brader, G., Gorfer, M., Mitter, B., Mitropoulou, A., Schmoll, M., van Hoesel, W., Wischnitzky, E., Sessitsch, A.	2015	LITERATURE SEARCH AND DATA COLLEC- TION ON RA FOR HUMAN HEALTH FOR MI- CROORGANISMS USED AS PLANT PROTEC- TION PRODUCTS REFERENCE not available, not stated EFSA Journal, 2015 EN-801, 173pp GLP/GEP: no Published: yes BVL-3306739, BVL-3306800, BVL-3306860, ASB2015-4072	no	no	not protected	-	N

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KMA 5.2.1/09 1. additional submission	Martel, C., Nielsen, G.D., Mari, A., Licht, T.R., Poulsen, L.K.	2010	BIBLIOGRAPHIC REVIEW ON THE POTENTIAL OF MICROORGANISMS, MICROBIAL PRODUCTS AND ENZYMES TO INDUCE RESPIRATORY SENSITIZATION not available, not applicable EFSA Eur. Food Saf. Auth., CFP/EFSA/FEEDAP/2009, 1-95 GLP/GEP: no Published: yes BVL-2466302, BVL-2569296, BVL-3306740, BVL-3306801, BVL-3306861, ASB2011-9441	no	no	not protected	-	N
KMA 5.2.2.1	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMENTAL APPLICATIONS INVOLVING BACULOVIRUS not available, not applicable ENV/JM/MONO, 1, 1-90 GLP/GEP: no Published: yes BVL-1913991, BVL-1914003, BVL-1940342, BVL-2187880, TOX2006-1036 Submitted in: KMA 5.1.1 Schon oben zitiert!	no	no	not protected	-	Y KIIM 5.3.2
KMA 5.2.2.1	██████	1980	TOLERANCE TESTING OF ACNPV NUCLEAR POLYHEDROSIS VIRUS FOLLOWING SINGLE-DOSE ADMINISTRATION TO SPF WISTAR RATS Andermatt Biocontrol GmbH / Probis GmbH, 595, 234/80 ████████████████████ GLP: yes Published: no BVL-1913996, BVL-1937623, BVL-2111608, BVL-2113000, BVL-3414722, TOX2003-1149	yes	no	not protected	PKA	Y KIIM 5.3.2

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KMA 5.2.2.1	[REDACTED]	2005b	ACUTE TOXICITY STUDY OF CYDIA POMONELLA GRANULOSIS VIRUS (CPGV) BY ORAL ADMINISTRATION TO RATS Sipcam S.p.A., 18971/05 [REDACTED] GLP: yes Published: no BVL-3537222, TOX2006-1680	yes	no	not protected	SIP	Y KIIM 5.3.2
KMA 5.2.2.1	[REDACTED]	1991b	ACUTE ORAL (GAVAGE) TOXICITY STUDY (SUBDIVISION F, NO 81-1) OF CPGV PAST IN RATS Arysta LifeScience S.A.S., BE-MT-99-91-04-AOR-01 [REDACTED] GLP/GEP: no Published: no BVL-2019202, BVL-2019204, BVL-2019770, BVL-2389414, TOX2006-2287	yes	no	not protected	ALS	Y KIIM 5.3.2
KMA 5.2.2.1 KMA 5.2.2.2 KMA 5.2.5 KMA 5.3	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD INTEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agricultur, 1584, 475-479 GLP/GEP: no Published: yes BVL-1937625, BVL-1939032, BVL-1940292, BVL-1940302, BVL-2112385, BVL-2112388, BVL-2112392, BVL-2112393, BVL-3414719, BVL-3414727, BVL-3414765, TOX2003-1150	no	no	not protected	-	Y KIIM 5.3.2

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KMA 5.2.2.1 KMA 5.2.2.2 KMA 5.2.2.3 KMA 5.2.4	Martignoni, M.E.	1978	THE DOUGLAS-FIR TUSsock MOTH: A SYN- THESIS not available, not applicable Forest Ser. Tech. Bulletin 1585. U.S. Dep. of Agriculture, ed. by: Brookes, M.H., Stark, R.W., Campell, R. W. GLP/GEP: no Published: yes BVL-3414718, BVL-3414726, BVL-3414732, BVL-3414740, TOX2006-1681	no	no	not protected	-	Y KIIM 5.3.2
KMA 5.2.2.1 KMA 5.2.2.3	[REDACTED]	1976	TOLERANCE TESTING WITH NUCLEAR POLY- HEDROSIS VIRUS AFTER SINGLE ORAL OR IN- TRAVENOUS ADMINISTRATION TO MALE AND FEMALE RATS Andermatt Biocontrol GmbH / Probis GmbH, 488/76 [REDACTED] GLP/GEP: no Published: no BVL-3543061, TOX2003-1153	yes	no	not protected	PKA	Y KIIM 5.3.2
KMA 5.2.2. KMA 5.2.2.2 KMA 5.2.2.3 KMA 5.2.3 KMA 5.2.5 KMA 5.4	Gröner, A., Huber, J., Krieg, A.	1978	INVESTIGATIONS WITH BACULOVIRUSES IN MAMMALS not available, not applicable Z Angew Zool, 65, 69-80 GLP/GEP: no Published: yes BVL-1937647, BVL-1939026, BVL-1939044, BVL-1939636, BVL-1940327, BVL-2019200, BVL-2019201, BVL-2019207, BVL-2019208, BVL-2019211, BVL-2019212, BVL-2019245, BVL-2019246, BVL-2019253, BVL-2019254, BVL-2019254, BVL-2112537, BVL-2112538, BVL-2112751, BVL-2112753, BVL-2112754, BVL-2112757, BVL-3414721, BVL-3414733, BVL-3414735, BVL-3414751, TOX2003-1154	no	no	not protected	-	Y KIIM 5.3.2

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KMA 5.2.2.1 KMA 5.2.2.2 KMA 5.2.2.3 KMA 5.2.5 KMA 5.2.5.1 KMA 5.3	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes BVL-1913998, BVL-1937654, BVL-1939041, BVL- 1939072, BVL-1940293, BVL-1940295, BVL- 1940311, BVL-2112540, BVL-2112542, BVL- 2112543, BVL-2112546, BVL-2112827, BVL- 2113002, BVL-3414758, BVL-3414716, BVL- 3414725, BVL-3414730, TOX2003-1155	yes	no	not protected	-	Y KIIM 5.3.2
KMA 5.2.2.1 KMA 5.2.2.2 KMA 5.2.5	Cunningham, J.C., Entwistle, P.F.	1981	CONTROL OF SAWFLIES BY BACULOVIRUS. IV CHARACTERIZATION AND SAFETY TESTING. not available, not applicable Microbial control of pests and plant diseases, Academ- ic Press, pp. 392-393, ed. Burges H.D. GLP/GEP: no Published: yes BVL-1937633, BVL-1939039, BVL-1939645, BVL- 2112409, BVL-2112429, BVL-2112431, BVL- 3414717, BVL-3414723, TOX2003-1152	no	no	not protected	-	Y KIIM 5.3.2
KMA 5.2.2.1	Xuebao, W.	1982	SAFETY TESTS OF A GV INSECTICIDE AGAINST CABBAGE BUTTERFLY PIERIS RA- PAE LARVAE not available, not applicable RAE Serie A, 70 (4), 2368 GLP/GEP: no Published: yes BVL-1937658, BVL-1939179, BVL-2112570, BVL- 2112578, BVL-3414715, BVL-3414743, BVL- 3414760, TOX2003-1156 Submitted in: KMA 5.1.4	no	no	not protected	-	Y KIIM 5.3.2

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KMA 5.2.2.1	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUSES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes Submitted in: KMA 5.1.1 TOX2003-1179	no	no	not protected	-	Y KIIM 5.3.2
KMA 5.2.2.1/01 KMA 5.2.2.3/01	Ashour, M.B., Ragheb, D.A., El-Sheikh, E.S.A., Gomaa, E.A.A., Kamita, S.G., Hammock, B.D.	2007	BIOSAFETY OF RECOMBINANT AND WILD TYPE NUCLEOPOLYHEDROVIRUSES AS BIOINSECTICIDES not available, not applicable International Journal of Environmental Research and Public Health, 4(2), 111-125 GLP/GEP: no Published: yes BVL-3306476, BVL-3306477, ASB2017-11927	no	no	not protected	-	N
KMA 5.2.2.2	██████████	1992	HOE 083311; WATER MISCIBLE SUSPENSION CONCENTRATE: 2.2*10 EXP. 13 VIR./1 (CODE:) TESTING FOR RESPIRATORY SENSITIZATION IN THE MALE AND FEMALE PIRBRIGHT WHITE GUINEA PIG Andermatt Biocontrol GmbH / Probis GmbH, 90.0689, 91.1096 ██ GLP: yes Published: no BVL-1913999, BVL-1937619, BVL-1939021, BVL-2111618, BVL-2111621, BVL-2113004, BVL-2113012, TOX2003-1148 Submitted in: KMA 5.2.1	yes	no	not protected	PKA	Y KIIM 5.3.3

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KMA 5.2.2.2	Gröner, A., Huber, J., Krieg, A.	1978	INVESTIGATIONS WITH BACULOVIRUSES IN MAMMALS not available, not applicable Z Angew Zool, 65, 69-80 GLP/GEP: no Published: yes BVL-1937647, BVL-1939026, BVL-1939044, BVL-1939636, BVL-1940327, BVL-2019200, BVL-2019201, BVL-2019201, BVL-2019207, BVL-2019208, BVL-2019208, BVL-2019211, BVL-2019212, BVL-2019212, BVL-2019245, BVL-2019246, BVL-2019246, BVL-2019253, BVL-2019254, BVL-2019254, BVL-2112537, BVL-2112538, BVL-2112751, BVL-2112753, BVL-2112754, BVL-2112757, TOX2003-1154 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.3
KMA 5.2.2.2	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD INTEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agriculture, 1584, 475-479 GLP/GEP: no Published: yes BVL-1937625, BVL-1939032, BVL-1940292, BVL-1940302, BVL-2112385, BVL-2112388, BVL-2112392, BVL-2112393, TOX2003-1150 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.3



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KMA 5.2.2.2	Martignoni, M.E.	1978	THE DOUGLAS-FIR TUSsock MOTH: A SYN- THESIS not available, not applicable Forest Ser. Tech. Bulletin 1585. U.S. Dep. of Agricul- ture, ed. by: Brookes, M.H., Stark, R.W., Campell, R. W. GLP/GEP: no Published: yes Submitted in: KMA 5.2.2.1 TOX2006-1681	no	no	not protected	-	Y KIIM 5.3.3
KMA 5.2.2.2	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes Submitted in: KMA 5.2.2.1 BVL-1913998, BVL-1937654, BVL-1939041, BVL- 1939072, BVL-1940293, BVL-1940295, BVL- 1940311, BVL-2112540, BVL-2112542, BVL- 2112543, BVL-2112546, BVL-2112827, BVL- 2113002, TOX2003-1155	yes	no	not protected	-	Y KIIM 5.3.3
KMA 5.2.2.2	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes Submitted in: KMA 5.1.4 BWS2003-90	no	no	not protected	-	Y KIIM 5.3.3

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KMA 5.2.2.2	Cunningham, J.C., Entwistle, P.F.	1981	CONTROL OF SAWFLIES BY BACULOVIRUS. IV CHARACTERIZATION AND SAFETY TESTING. not available, not applicable Microbial control of pests and plant diseases, Academic Press, pp. 392-393, ed. Burges H.D. GLP/GEP: no Published: yes BVL-1937633, BVL-1939039, BVL-1939645, BVL-2112409, BVL-2112429, BVL-2112431, TOX2003-1152 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.3
KMA 5.2.2.3	Gröner, A., Huber, J., Krieg, A.	1978	INVESTIGATIONS WITH BACULOVIRUSES IN MAMMALS not available, not applicable Z Angew Zool, 65, 69-80 GLP/GEP: no Published: yes BVL-1937647, BVL-1939026, BVL-1939044, BVL-1939636, BVL-1940327, BVL-2019200, BVL-2019201, BVL-2019201, BVL-2019207, BVL-2019208, BVL-2019208, BVL-2019211, BVL-2019212, BVL-2019212, BVL-2019245, BVL-2019246, BVL-2019246, BVL-2019253, BVL-2019254, BVL-2019254, BVL-2112537, BVL-2112538, BVL-2112751, BVL-2112753, BVL-2112754, BVL-2112757, TOX2003-1154 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.4

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KMA 5.2.2.3	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes BVL-1913998, BVL-1937654, BVL-1939041, BVL- 1939072, BVL-1940293, BVL-1940295, BVL- 1940311, BVL-2112540, BVL-2112542, BVL- 2112543, BVL-2112546, BVL-2112827, BVL- 2113002, TOX2003-1155 Submitted in: KMA 5.2.2.1	yes	no	not protected	-	Y KIIM 5.3.4
KMA 5.2.2.3		1976	TOLERANCE TESTING WITH NUCLEAR POLY- HEDROSIS VIRUS AFTER SINGLE ORAL OR IN- TRAVENOUS ADMINISTRATION TO MALE AND FEMALE RATS Andermatt Biocontrol GmbH / Probis GmbH, 488/76  GLP/GEP: no Published: no TOX2003-1153 Submitted in: KMA 5.2.2.1	yes	no	not protected	PKA	Y KIIM 5.3.4
KMA 5.2.2.3	Martignoni, M.E.	1978	THE DOUGLAS-FIR TUSSOCK MOTH: A SYN- THESIS not available, not applicable Forest Ser. Tech. Bulletin 1585. U.S. Dep. of Agricul- ture, ed. by: Brookes, M.H., Stark, R.W., Campell, R.W. GLP/GEP: no Published: yes TOX2006-1681 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.4

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KMA 5.2.2.3	Meinecke, C.F., McLane, W.C., Rehnborg, C.S.	1970	TOXICITY-PATHOGENICITY STUDIES OF NU- CLEAR-POLYHEDROSIS VIRUS OF HELIOTHIS ZEA IN WHITE MICE not available, not applicable GLP/GEP: no Published: yes TOX2006-1056 Submitted in: KMA 5.2.1	no	no	not protected	-	Y KIIM 5.3.4
KMA 5.2.2.3 KMA 5.2.4	Röder, A., Pünter, J.	1977	INTERACTIONS BETWEEN NUCLEAR POLY- HEDROSIS VIRUSES AND VERTEBRATE CELLS not available, not applicable Zbl. Bakt. Hyg.. I. Abt. Orig. A 239, pp. 459-464 GLP/GEP: no Published: yes BVL-1939226, BVL-2112603, BVL-2112617, BVL- 3414731, BVL-3414748, TOX2003-1162	no	no	not protected	-	Y KIIM 5.3.4
KMA 5.2.2.3	Barnes, R.W., Meinecke, C.F., McLane, W.C., Rehnborg, C.S.	1970	LONG-TERM FEEDING AND OTHER TOXICITY- PATHOGENICITY STUDIES ON RATS USING A COMMERCIAL PREPARATION OF THE NUCLE- AR-POLYHEDROSIS VIRUS OF HELIOTHIS ZEA not available, not applicable Journal of Invertebrate Pathology 16, p. 112-115, 1970 GLP/GEP: no Published: yes BVL-3414736, TOX2006-1684	no	no	not protected	-	Y KIIM 5.3.4

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KMA 5.2.2.3/01	Ashour, M.B., Ragheb, D.A., El-Sheikh, E.S.A., Gomaa, E.A.A., Kamita, S.G., Hammock, B.D.	2007	BIOSAFETY OF RECOMBINANT AND WILD TYPE NUCLEOPOLYHEDROVIRUSES AS BIOIN- SECTICIDES not available, not applicable International Journal of Environmental Research and Public Health, 4(2), 111-125 GLP/GEP: no Published: yes BVL-3306476, BVL-3306477, ASB2017-11927 Submitted in: KMA 5.2.2.1/01	no	no	not protected	-	N
KMA 5.2.3 KMA 5.2.4	Döller, G.; Huber, J.	1983	SAFETY TEST FOR THE CONTROL OF VIRUS REPLICATION OF GRANULOSIS VIRUS FORM LASPEYRESIA POMONELLA IN MAMMALIANS Z. für ang. Ent. 95 (1983), pp. 64-69, not available GLP/GEP: no Published: yes BVL-1939484, BVL-1940305, BVL-2112624, BVL- 2112625, BVL-3414756, BVL-3414764, BVL- 2019260, BVL3416491, TOX2003-1169	no	no	not protected	-	Y KIIM 5.3.5
KMA 5.2.3	Reimann, R., Mil- tenburger, H.G.	1983	CYTOGENETIC STUDIES IN MAMMALIAN CELLS AFTER TREATMENT WITH INSECT PATHOGENIC VIRUSES [BACULOVIRIDAE]. II IN VITRO STUDIES WITH MAMMALIAN CELL LINES not available, not applicable Entomophaga, IOBC journal, 28, 33-44 GLP/GEP: no Published: yes BVL-1937675, BVL-2019219, BVL-2019220, BVL- 2112628, BVL-3414755, TOX2003-1157	no	no	not protected	-	Y KIIM 5.3.5

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KMA 5.2.3	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS-ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes BVL-1913993, BVL-1939254, BVL-2019198, BVL-2019199, BVL-2019199, BVL-2019205, BVL-2019206, BVL-2019206, BVL-2019209, BVL-2019210, BVL-2019210, BVL-2019243, BVL-2019244, BVL-2019244, BVL-2019249, BVL-2019249, BVL-2019250, BVL-2019250, BVL-2019251, BVL-2019252, BVL-2019252, BVL-2019255, BVL-2019255, BVL-2019256, BVL-2019256, BVL-2112620, BVL-2112997, BVL-2390989, TOX2003-1179 Submitted in: KMA 5.1.1	no	no	not protected	-	Y KIIM 5.3.5
KMA 5.2.3 KMA 5.2.5 KMA 5.4	Reimann, R.K.H.	1984	CYTOGENETIC INVESTIGATIONS OF THE EFFECT OF VIRAL INSECT PATHOGENS (BACULOVIRUSES) ON MAMMALIAN CELLS IN VIVO AND IN VITRO (GERMAN ORIGINAL) not available, not applicable Dissertation Technische Hochschule Darmstadt GLP/GEP: no Published: yes BVL-1937684, BVL-1940325, BVL-2112629, BVL-2112630, BVL-3414753, TOX2003-1158	no	no	not protected	-	Y KIIM 5.3.5

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KMA 5.2.3	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes Submitted in: KMA 5.1.4 BVL-2110985, BVL-2111040, BVL-2111042, BVL-2111512, BVL-2112850, BVL-2112996, BWS2003-90	no	no	not protected	-	Y KIIM 5.3.5
KMA 5.2.3	Volkman, L.E., Knudson, D.L.	1986	CHAPTER 5: IN VITRO REPLICATION OF BACULOVIRUSES not available, not applicable The biology of Baculoviruses, 5, 109-127 GLP/GEP: no Published: yes BVL-2019217, BVL-2019218, TOX2006-2286	no	no	not protected	-	Y KIIM 5.3.5
KMA 5.2.3	Reimann, R., Miltenburger, H.G.	1982	CATOGENITIC STUDIES IN MAMMALIAN CELLS AFTER TREATMENT WITH INSECT PATHOGENIC VIRUSES (BACULOVIRIDAE). I. IN VIVO STUDIES WITH RODENTS not available, not applicable not available GLP/GEP: no Published: no BVL-2019213, BVL-2019214, BVL-2019215, BVL-2019216, BVL-2019231, BVL-2019232, BVL-2112740, BVL-2112747, TOX2006-2676	no	no	not protected	-	Y KIIM 5.3.5

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KMA 5.2.3	Gröner, A., Huber, J., Krieg, A.	1978	INVESTIGATIONS WITH BACULOVIRUSES IN MAMMALS not available, not applicable Z Angew Zool, 65, 69-80 GLP/GEP: no Published: yes BVL-1937647, BVL-1939026, BVL-1939044, BVL-1939636, BVL-1940327, BVL-2019200, BVL-2019201, BVL-2019201, BVL-2019207, BVL-2019208, BVL-2019208, BVL-2019211, BVL-2019212, BVL-2019212, BVL-2019245, BVL-2019246, BVL-2019246, BVL-2019253, BVL-2019254, BVL-2019254, BVL-2112537, BVL-2112538, BVL-2112751, BVL-2112753, BVL-2112754, BVL-2112757, TOX2003-1154 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.5
KMA 5.2.4	Xuebao, W.	1982a	SAFETY TESTS OF A GV INSECTICIDE AGAINST CABBAGE BUTTERFLY PIERIS RA-PAE LARVAE not available, not applicable RAE Serie A, 70 (4), 2368 GLP/GEP: no Published: yes BVL-1937658, BVL-1939179, BVL-2112570, BVL-2112578, TOX2003-1156 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.6

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KMA 5.2.4	Martignoni, M.E.	1978	THE DOUGLAS-FIR TUSsock MOTH: A SYN- THESIS not available, not applicable Forest Ser. Tech. Bulletin 1585. U.S. Dep. of Agricul- ture, ed. by: Brookes, M.H., Stark, R.W., Campell, R. W. GLP/GEP: no Published: yes TOX2006-1681 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4	Tija, S., Meyer zu Altenschildesche, G., Doerfler, W.	1983	AUTOGRAPHIA CALIFORNICA NUCLEAR POL- YHEDROSIS VIRUS (ACNPV) DNA DOES NOT PERSIST IN MASS CULTURES OF MAMMALIAN CELLS not available, not applicable Virology 125, pp 107-117 GLP/GEP: no Published: yes BVL-1939211, BVL-2019241, BVL-2019242, BVL- 2112592, BVL-3414741, TOX2003-1159	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4	Gröner, A., Grana- dos, R.R., Burand, J.P.	1984	INTERACTION OF AUTOGRAPHIA CALIFORNI- CA NUCLEAR POLYHEDROSIS VIRUS WITH TWO NONPERMISSIVE CELL LINES not available, not applicable Intervirology 21: pp. 203-209 (1984) GLP/GEP: no Published: yes BVL-1939223, BVL-2112597, BVL-3414745, TOX2003-1160	no	no	not protected	-	Y KIIM 5.3.6

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KMA 5.2.4	Ignoffo, C.M., Ra- fajko, R.R.	1972	IN VITRO ATTEMPTS TO INFECT PRIMATE CELLS WITH THE NUCLEOPOLYDROSIS VIRUS OF HELIOTHIS not available, not applicable Journal of Invertebrate Pathology 20, pp. 321-325 GLP/GEP: no Published: yes BVL-1939225, BVL-2112599, BVL-3414744, TOX2003-1161	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4	Röder, A., Pünter, J.	1977	INTERACTIONS BETWEEN NUCLEAR POLY- HEDROSIS VIRUSES AND VERTEBRATE CELLS not available, not applicable Zbl. Bakt. Hyg., I. Abt. Orig. A 239, pp. 459-464 GLP/GEP: no Published: yes BVL-1939226, BVL-2112603, BVL-2112617, TOX2003-1162 Submitted in: KMA 5.2.2.3	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4	Schmidt, J., Erfle, V.	1982	STUDIES ON THE RETROVIRUS-ACTIVATING POTENTIAL OF NUCLEAR POLYHEDROSIS VI- RUSES IN MAMMALIAN CELL CULTURES not available, not applicable Zbl. Bakt. Hyg., I. Abt. Orig. A 252, pp. 438-455 GLP/GEP: no Published: yes BVL-1939227, BVL-2112618, BVL-3414742, TOX2003-1163	no	no	not protected	-	Y KIIM 5.3.6

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KMA 5.2.4	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS- ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes BVL-1913993, BVL-1939254, BVL-2019198, BVL- 2019199, BVL-2019199, BVL-2019205, BVL- 2019206, BVL-2019206, BVL-2019209, BVL- 2019210, BVL-2019210, BVL-2019243, BVL- 2019244, BVL-2019244, BVL-2019249, BVL- 2019249, BVL-2019250, BVL-2019250, BVL- 2019251, BVL-2019252, BVL-2019252, BVL- 2019255, BVL-2019255, BVL-2019256, BVL- 2019256, BVL-2112620, BVL-2112997, BVL- 2390989, TOX2003-1179 Submitted in: KMA 5.1.1	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4	Gröner, A.	1990	CYDIA POMONELLA GRANULOSUS VIRUS (CPGV) HOE 083311 SUMMARY AND CONCLU- SIONS ON THE TOXICITY Andermatt Biocontrol GmbH / Probis GmbH, not ap- plicable AgrEvo, Hoechst and Schering, Marburg, Germany GLP/GEP: no Published: no BVL-1936735, BVL-1939625, BVL-2111573, BVL- 2111580, BVL-2112999, TOX2005-1876 Submitted in: KMA 5.1.2	no	no	not protected	PKA	Y KIIM 5.3.6

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KMA 5.2.4	Döller, G., Gröner, A.	1981a	SAFETY TEST FOR THE CONTROL OF VIRUS REPLICATION OF NUCLEAR POLYHEDROSIS VIRUS FROM MAMESTRA BRASSICAE IN VERTEBRATES (GERMAN ORIGINAL) not available, not applicable Z Angew Entomol, 92, 99-105 GLP/GEP: no Published: yes BVL-1939257, BVL-2112621, BVL-3414762, TOX2003-1166	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4	Döller, G., Gröner, A., Straub, O.	1983	SAFETY EVALUATION OF NUCLEAR POLYHEDROSIS VIRUS REPLICATION IN PIGS not available, not applicable Applied and Environmental Microbiology 45 (4): pp. 1229-1233 GLP/GEP: no Published: yes BVL-1939265, BVL-2112622, BVL-3414757, TOX2003-1167	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4 KMA 5.3	Döller, G.	1981	UNSPECIFIC INTERACTION BETWEEN GRANULOSIS VIRUS AND MAMMALIAN IMMUNOGLOBULINS not available, not applicable Naturwissenschaften 68, p. 573-574, (1981) GLP/GEP: no Published: yes BVL-1939481, BVL-2112623, BVL-3414759, TOX2003-1168	no	no	not protected	-	Y KIIM 5.3.6

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KMA 5.2.4 KMA 5.3	Döller, G., Huber, J.	1983a	SAFETY TEST FOR THE CONTROL OF VIRUS REPLICATION OF GRANULOSIS VIRUS FORM LASPEYRESIA POMONELLA IN MAMMALIANS (GERMAN ORIGINAL) not available, not applicable Z Angew Entomol, 95, 64-69 GLP/GEP: no Published: yes BVL-1939484, BVL-1940305, BVL-2112624, BVL-2112625, BVL-3414741, BVL-3416481, TOX2003-1169 Submitted in: KMA 5.2.3	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4	Döller, G., Matthaeus, W., Flehmig, B., Lorenz, R.J.	1983	NON-IMMUNOLOGICAL INTERACTIONS BETWEEN BACULOVIRUS-ANTIGEN AND HUMAN IMMUNOGLOBULINS not available, not applicable Z Angew Entomol, 95, 379-389 GLP/GEP: no Published: yes BVL-1939495, BVL-2112626, BVL-3414747, TOX2003-1170	no	no	not protected	-	Y KIIM 5.3.6
KMA 5.2.4 KMA 5.3	Bailey, M.J., Hunter Fujita, F.R.	1987	SPECIFIC IMMUNOLOGICAL RESPONSE AGAINST THE GRANULOSIS VIRUS OF THE CODLING MOTH (CYDIA POMONELLA) IN WOODMICE (APODEMUS SYLVATICUS): FIELD OBSERVATIONS not available, not applicable Ann. Appl. Biol., vol. 111, pp. 649-660, (1987) GLP/GEP: no Published: yes BVL-1939583, BVL-2019257, BVL-2019258, BVL-2019258, BVL-2112627, BVL-3414761, BVL-3416482, TOX2003-1171	no	no	not protected	-	Y KIIM 5.3.6

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KMA 5.2.5	Gröner, A., Huber, J., Krieg, A.	1978	INVESTIGATIONS WITH BACULOVIRUSES IN MAMMALS not available, not applicable Z Angew Zool, 65, 69-80 GLP/GEP: no Published: yes BVL-1937647, BVL-1939026, BVL-1939044, BVL-1939636, BVL-1940327, BVL-2019200, BVL-2019201, BVL-2019201, BVL-2019207, BVL-2019208, BVL-2019208, BVL-2019211, BVL-2019212, BVL-2019212, BVL-2019245, BVL-2019246, BVL-2019246, BVL-2019253, BVL-2019254, BVL-2019254, BVL-2112537, BVL-2112538, BVL-2112751, BVL-2112753, BVL-2112754, BVL-2112757, TOX2003-1154 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.7.1
KMA 5.2.5 KMA 5.2.5	Cunningham, J.C., Entwistle, P.F.	1981	CONTROL OF SAWFLIES BY BACULOVIRUS. IV CHARACTERIZATION AND SAFETY TESTING. not available, not applicable Microbial control of pests and plant diseases, Academic Press, pp. 392-393, ed. Burges H.D. GLP/GEP: no Published: yes BVL-1937633, BVL-1939039, BVL-1939645, BVL-2112409, BVL-2112429, BVL-2112431, TOX2003-1152 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.7.1

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KMA 5.2.5	Reimann, R.K.H.	1984	CYTOGENETIC INVESTIGATIONS OF THE EF- FECT OF VIRAL INSECT PATHOGENS (BACU- LOVIRUSES) ON MAMMALIAN CELLS IN VIVO AND IN VITRO (GERMAN ORIGINAL) not available, not applicable Dissertation Technische Hochschule Darmstadt GLP/GEP: no Published: yes BVL-1937684, BVL-1940325, BVL-2112629, BVL- 2112630, TOX2003-1158 Submitted in: KMA 5.2.3	no	no	not protected	-	Y KIIM 5.3.7.1
KMA 5.2.5	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD IN- TEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agricultur, 1584, 475-479 GLP/GEP: no Published: yes BVL-1937625, BVL-1939032, BVL-1940292, BVL- 1940302, BVL-2112385, BVL-2112388, BVL- 2112392, BVL-2112393, TOX2003-1150 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.3.7.1

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KMA 5.2.5	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes BVL-1913998, BVL-1937654, BVL-1939041, BVL- 1939072, BVL-1940293, BVL-1940295, BVL- 1940311, BVL-2112540, BVL-2112542, BVL- 2112543, BVL-2112546, BVL-2112827, BVL- 2113002, TOX2003-1155 Submitted in: KMA 5.2.2.1	yes	no	not protected	-	Y KIIM 5.3.7.1
KMA 5.2.5.1	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes BVL-1913998, BVL-1937654, BVL-1939041, BVL- 1939072, BVL-1940293, BVL-1940295, BVL- 1940311, BVL-2112540, BVL-2112542, BVL- 2112543, BVL-2112546, BVL-2112827, BVL- 2113002, TOX2003-1155 Submitted in: KMA 5.2.2.1	yes	no	not protected	-	Y KIIM 5.3.7.2

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KMA 5.3	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS- ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes BVL-1913993, BVL-1939254, BVL-2019198, BVL- 2019199, BVL-2019199, BVL-2019205, BVL- 2019206, BVL-2019206, BVL-2019209, BVL- 2019210, BVL-2019210, BVL-2019243, BVL- 2019244, BVL-2019244, BVL-2019249, BVL- 2019249, BVL-2019250, BVL-2019250, BVL- 2019251, BVL-2019252, BVL-2019252, BVL- 2019255, BVL-2019255, BVL-2019256, BVL- 2019256, BVL-2112620, BVL-2112997, BVL- 2390989, TOX2003-1179 Submitted in: KMA 5.1.1	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes Submitted in: KMA 5.1.4 BVL-2110985, BVL-2111040, BVL-2111042, BVL- 2111512, BVL-2112850, BVL-2112996, BWS2003- 90	no	no	not protected	-	Y KIIM 5.5.1

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KMA 5.3	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD INTEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agriculture, 1584, 475-479 GLP/GEP: no Published: yes BVL-1937625, BVL-1939032, BVL-1940292, BVL-1940302, BVL-2112385, BVL-2112388, BVL-2112392, BVL-2112393, TOX2003-1150 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Meinecke, C.F, McLane, W.C., Rehnborg, C.S.	1970	INHALATION AND DERMAL ALLERGENICITY STUDIES OF A NUCLEAR-POLYHEDROSIS VIRUS OF HELIOTHIS ZEA IN GUINEA PIGS not available, not applicable Journal of Invertebrate Pathology 15, 207-210 (1970) GLP/GEP: no Published: yes BVL-3414769 , TOX2006-1056	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Döller, G., Huber, J.	1983a	SAFETY TEST FOR THE CONTROL OF VIRUS REPLICATION OF GRANULOSIS VIRUS FORM LASPEYRESIA POMONELLA IN MAMMALIANS (GERMAN ORIGINAL) not available, not applicable Z Angew Entomol, 95, 64-69 GLP/GEP: no Published: yes BVL-1939484, BVL-1940305, BVL-2112624, BVL-2112625, TOX2003-1169 Submitted in: KMA 5.2.4	no	no	not protected	-	Y KIIM 5.5.1

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KMA 5.3	Ignoffo, C.M., An- derson, R.F., Woodard, G.	1973	TERATOGENIC POTENTIAL IN RATS FED THE NUCLEAR POLYHEDROSIS VIRUS OF HELIO- THIS not available, not applicable Environ. Entomol. 2 (3) , pp 337-338 GLP/GEP: no Published: yes BVL-1939605, BVL-2019247, BVL-2019248, BVL- 2019248, BVL-2112637, BVL-3414763, BVL- 3416495, TOX2003-1173	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes BVL-1913998, BVL-1937654, BVL-1939041, BVL- 1939072, BVL-1940293, BVL-1940295, BVL- 1940311, BVL-2112540, BVL-2112542, BVL- 2112543, BVL-2112546, BVL-2112827, BVL- 2113002, TOX2003-1155 Submitted in: KMA 5.2.2.1	yes	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Döller, G., Huber, J.	1983b	SAFETY TEST FOR THE CONTROL OF VIRUS REPLICATION OF GRANULOSIS VIRUS FROM LASPEYRESIA POMONELLA IN MAMMALIANS not available, not applicable Z Angew Entomol, 95, 64 - 69 GLP/GEP: no Published: yes BVL-1939484, BVL-1940305, BVL-2112624, BVL- 2112625, BVL-3414756, BVL-3414764, BVL- 2019260, BVL-3416491, TOX2003-1169 Submitted in: KMA 5.2.3	no	no	not protected	-	Y KIIM 5.5.1

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KMA 5.3	Döller, G., Gröner, A.	1981b	SAFETY TEST FOR THE CONTROL OF VIRUS REPLICATION OF NUCLEAR POLYHEDROSIS VIRUS FROM MAMESTRA BRASSICAE IN VERTEBRATES not available, not applicable Z Angew Entomol, 92, 99 - 105 GLP/GEP: no Published: yes BVL-1939257, BVL-2112621, BVL-3414762, TOX2003-1166 Submitted in: KMA 5.2.4	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Döller, G.; Gröner, A.; Straub, O.	1981	SAFETY EVALUATION OF NUCLEAR POLYHEDROSIS VIRUS REPLICATION IN PIGS not available, not available GLP/GEP: no Published: yes BVL-1939265, BVL-2112622, BVL-3414757, TOX2003-1167 Submitted in: KMA 5.2.4	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Bailey, M.J., Hunter Fujita, F.R.	1987	SPECIFIC IMMUNOLOGICAL RESPONSE AGAINST THE GRANULOSIS VIRUS OF THE CODLING MOTH (CYDIA POMONELLA) IN WOODMICE (APODEMUS SYLVATICUS): FIELD OBSERVATIONS not available, not applicable Ann. Appl. Biol., vol. 111, pp. 649-660 ,(1987) GLP/GEP: no Published: yes BVL-1939583, BVL-2019257, BVL-2019258, BVL-2019258, BVL-2112627, TOX2003-1171 Submitted in: KMA 5.2.4	no	no	not protected	-	Y KIIM 5.5.1

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KMA 5.3	Xuebao, W.	1982	SAFETY TESTS OF A GV INSECTICIDE AGAINST CABBAGE BUTTERFLY PIERIS RA- PAE LARVAE not available, not applicable RAE Serie A, 70, 2368 GLP/GEP: no Published: yes BVL-1937658, BVL-1939179, BVL-2112570, BVL- 2112578, BVL-3414715, BVL-3414743, BVL- 3414760, TOX2003-1156 Submitted in: KMA 5.1.4	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3	Döller, G.	1981	UNSPECIFIC INTERACTION BETWEEN GRANU- LOSIS VIRUS AND MAMMALIAN IMMUNO- GLOBULINS not available, not applicable Naturwissenschaften 68, p. 573-574, (1981) GLP/GEP: no Published: yes BVL-1939481, BVL-2112623, TOX2003-1168 Submitted in: KMA 5.2.4	no	no	not protected	-	Y KIIM 5.5.1
KMA 5.3/01	Molinari, P, Gar- cía-Núñez, S, Gravisaco, MJ, Carrillo, E, Ber- instein, A, Taboga, O	2010	BACULOVIRUS TREATMENT FULLY PROTECTS MICE AGAINST A LETHAL CHALLENGE OF FMDV not available, not applicable Antiviral Research, 87(2), 276-279 GLP/GEP: no Published: yes BVL-3306478, ASB2017-11929	no	no	not protected	-	N

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KMA 5.3/02	Wang, M., Zheng, Z., Meng, J., Wang, H., He, M., Zhang, F., Liu, Y., Hu, B., He, Z., Hu, Q., Wang, H.	2015	IN VIVO STUDY OF IMMUNOGENICITY AND KINETIC CHARACTERISTICS OF A QUANTUM DOT-LABELLED BACULOVIRUS not available, not applicable Biomaterials, 64, 79-87 GLP/GEP: no Published: yes BVL-3306479, ASB2017-11930	no	no	not protected	-	N
KMA 5.4	Reimann, R.K.H.	1984	CYTOGENETIC INVESTIGATIONS OF THE EFFECT OF VIRAL INSECT PATHOGENS (BACULOVIRUSES) ON MAMMALIAN CELLS IN VIVO AND IN VITRO (GERMAN ORIGINAL) not available, not applicable Dissertation Technische Hochschule Darmstadt GLP/GEP: no Published: yes BVL-1937684, BVL-1940325, BVL-2112629, BVL-2112630, TOX2003-1158 Submitted in: KMA 5.2.3	no	no	not protected	-	Y KIIM 5.5.2
KMA 5.4	Gröner, A., Huber, J., Krieg, A.	1978	INVESTIGATIONS WITH BACULOVIRUSES IN MAMMALS not available, not applicable Z Angew Zool, 65, 69-80 GLP/GEP: no Published: yes BVL-1937647, BVL-1939026, BVL-1939044, BVL-1939636, BVL-1940327, BVL-2019200, BVL-2019201, BVL-2019201, BVL-2019207, BVL-2019208, BVL-2019208, BVL-2019211, BVL-2019212, BVL-2019212, BVL-2019245, BVL-2019246, BVL-2019246, BVL-2019253, BVL-2019254, BVL-2019254, BVL-2112537, BVL-2112538, BVL-2112751, BVL-2112753, BVL-2112754, BVL-2112757, TOX2003-1154 Submitted in: KMA 5.2.2.1	no	no	not protected	-	Y KIIM 5.5.2

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KMA 5.6	OECD	2002	<p>CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMENTAL APPLICATIONS INVOLVING BACULOVIRUS</p> <p>not available, not applicable</p> <p>ENV/JM/MONO, 1, 1-90</p> <p>GLP/GEP: no</p> <p>Published: yes</p> <p>Submitted in: KMA 5.1.1</p> <p>BVL-1913991, BVL-1914003, BVL-1940342, BVL-2187880</p> <p>TOX2006-1036</p> <p>Schon oben zitiert!</p>	no	no	not protected	-	Y KIIM 5.1
KCA 5.1	Abe, T., Kaname, Y., Wen, X., Tani, H., Moriishi, K., Uematsu, S., Takeuchi, O., Ishii, K. J., Kawai, T., Akira, S., Matsuura, Y.	2009	<p>Baculovirus induces type I interferon production through toll-like receptor-dependent and -independent pathways in a cell-type-specific manner.</p> <p>10.1128/JVI.00679-09</p> <p>JOURNAL OF VIROLOGY, Aug. 2009, Vol. 83, No. 15, p. 7629–7640</p> <p>ASB2018-887</p>	no	no	Not protected	Lit	N
KCA 5.1	Abe, T., Takahashi, H., Hamazaki, H., Miyano-Kurosaki, N., Matsuura, Y., Takaku, H.	2003	<p>Baculovirus induces an innate immune response and confers protection from lethal influenza virus infection in mice.</p> <p>10.4049/jimmunol.171.3.1133</p> <p>J Immunol August 1, 2003, 171 (3) 1133-1139</p> <p>ASB2018-888</p>	yes	no	Not protected	Lit	no

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KCA 5.1	EFSA	2012	Scientific Opinion on the maintenance of the list of QPS biological agents intentionally added to food and feed (2012 update) EFSA Eur. Food Saf. Auth., vol.10 (2012) GLP: No Published: Yes BVL-2542369, BVL-2542378, BVL-2542393, BVL-2542425, BVL-2542434, BVL-2542440, BVL-2542443, BVL-2542448, BVL-2542450, BVL-2542479, BVL-2542601, BVL-2569262, BVL-2569292, BVL-2569293, BVL-2569323, BVL-2569444, ASB2014-3917	no	no	Not protected	Lit	no
KCA 5.4 KCA 5.9	Benz, A., G. Editor: Granados, R. R., Federici, B. A.	1986	Book: the biology of Baculoviruses. : Volume I: biological properties and molecular biology. Chapter 1: introduction: historical perspectives. CRC Press, Vol. 1, Chapter 1 (1-37) ASB2018-879	no	no	Not protected	Lit	no
KCA 5.1	████████	2005	Acute toxicity study of Cydia pomonella Granulosis virus (CpGV) by intraperitoneal injection to rats 18973/05 GLP: Yes Published: No BVL-3414772, BVL-3414738, TOX2006-1055	yes	no	Not protected	Probis GmbH	No KIIM 5.3.4 KIIM 5.6
KCA 5.1	████████	2005	Acute inhalation toxicity study of Virgo in rats 19016/05 GLP: Yes Published: No BVL-3414771, BVL-3414729, TOX2006-1054	yes	no	Not protected	Probis GmbH	No KIIM 3.3 KIIM 5.6

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KCA 5.1	Chiang, Y-W., Wu, J-C., Wang, K-C., Lai, C-W., Chung, Y-C., Hu, Y-C.	2006	efficient expression of histidine-tagged large hepatitis delta antigen in Baculovirus-transduced baby hamster kidney cells 10.3748/wjg.v12.i10.1551 World J Gastroenterol 2006 March 14; 12(10): 1551-1557 ASB2018-890	yes	no	Not protected	Lit	no
KCA 5.1	Garnier, Garnier, L.; Gaudin, J. C.; Bensadoun, P.; Rebillat, I.; Morel, Y.	2009	real-time pcr assay for detection of a new simulant for Poxvirus biothreat agents 10.1128/AEM.02120-08 Appl Environ Microbiol 75(6): 1614-1620 ASB2017-15566	no	no	Not protected	Lit	no
KCA 5.9	Hervas-Stubbs, S., Rueda, P., Lopez, L., Leclerc, C.	2007	insect baculoviruses strongly potentiate adaptive immune responses by inducing type I IFN. 10.4049/jimmunol.178.4.2361 J Immunol. 2007 Feb 15;178(4):2361-9. ASB2018-891	no	no	Not protected	Lit	no
KCA 5.9	Huber, J., (B.A.; Federici, R.R. Granados, Editor)	1986	The Biology of Baculoviruses. Practical Applications for Insect Control. Use of baculoviruses in pest management programs CRC Press, Boca Raton, USA, Vol. II, (1986) 181-202 ASB2018-1330	no	no	Not protected	Lit	no
KCA 5.1 KCA 5.4	Kalawate, A. S.	2014	microbial viral insecticides. basic and applied aspects of biopesticides 10.1007/978-81-322-1877-7_4 Basic and Applied Aspects of Biopesticides. (2014) pp 47-68 ASB2017-16166	no	no	Not protected	Lit	no

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KCA 5.1 KCA 5.9	Kitajima, M., Hamazaki, H., Mi- yano-Kurosaki, N., Takaku, H.	2006	Characterization of baculovirus Autographa californica multiple nuclear polyhedrosis virus infection in mammalian cells. 10.1016/j.bbrc.2006.02.167 Biochemical and Biophysical Research Communications 343 (2) (2006) 378–384 ASB2018-892	no	no	Not protected	Lit	no
KCA 5.4	Mitchell, J.K., Friesen, P.D.	2012	Baculoviruses modulate a proapoptotic DNA damage response to promote virus multiplication 10.1128/JVI.02246-12 Journal of Virology. p. 13542–13553, 2012 Volume 86, Number 24 ASB2018-28	no	no	Not protected	Lit	no
KCA 5.3	Sandig, V.; Hoffmann, C.; Steinert, S.; Jennings G.; Schlag, P.; Strauss, M.	1996	Gene transfer into hepatocytes and human liver tissue by baculovirus vectors GLP: No (3) Open (1) Published: Open (1) Yes (3) BVL-2019229, BVL-2019230, BVL-2019230, TOX2006-2293	no	no	Not protected	Lit	no
KCA 5.1 KCA 5.9	Volkman, L. E., Goldsmith, P. A.	1983	in vitro survey of autographa californica nuclear polyhedrosis Virus interaction with nontarget vertebrate host cells. Appl Environ Microbiol. 1983 Mar;45(3):1085-93. ASB2018-885	yes	no	Not protected	Lit	no
KCA 5.4	Volkman, L. E., Knudson, D. L., Editor: Granados, R. R., Federici, B. A.	1986	Book: the biology of Baculoviruses. : Volume I: biological properties and molecular biology. Chapter 5: in vitro replication of Baculoviruses. CRC Press, Vol. 1, Chapter 5 (109-127) ASB2018-881 BVL-2019218, TOX2006-2286	no	no	Not protected	Lit	No KIIM 5.3.5

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KCA 5.4	Winstanley D.	1999	I: Mammalian cell study : Cydia pomonella granulovirus C1829 GLP: No (4) Open (1) Published: No (4) Open (1) BVL-2019221, BVL-2019222, BVL-2389463, TOX2006-2289	no	no	Not protected	Arysta	No KIIM 5.3.6
KCA 5.4	Winstanley D.	2000	II: Mammalian cell study : Cydia pomonella granulovirus C1829 GLP: No (4) Open (1) Published: No (4) Open (1) BVL-2019223, BVL-2019224, BVL-2389464, TOX2006-2290	no	no	Not protected	Arysta	No KIIM 5.3.6
KCA 5.4	Winstanley, D.; Crook, N. E.	1993	replication of Cydia pomonella granulosis virus in cell cultures Journal of General Virology (1993), 74, 159%1609 ASB2017-15579	no	no	Not protected	Lit	no
KCA 5.4	Germany	2007	Cydia pomonella Granulovirus Mexican strain: Draft Assessment Report ASB2010-10675	no	no	Not protected	Lit	no
KCA 5.6	Kino and Chrousos	2007	Virus-mediated modulation of the host endocrine signaling systems: clinical implications TRENDS in Endocrinology and Metabolism Vol.18 No.4 ASB2019-3390	no	no	Not protected	Lit	no
KCA 5.6	Antonelli et al.	2009	Antonelli, A., Ferri, C., Ferrari, S. M., Colaci, M., Sansonno, D., Fallahi, P. Endocrine manifestations of hepatitis C virus infection. Nature clinical practice ENDOCRINOLOGY & METABOLISM ASB2019-3372	no	no	Not protected	Lit	no

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KCA 5.6	Loomba-Albrecht et al.	2014	Endocrinopathies in children infected with human immunodeficiency virus Endocrinology and metabolism clinics of North America ASB2019-3452	no	no	Not protected	Lit	no
KCA 5.6	Mirza et al.	2018	Endocrinological aspects of HIV infection ASB2019-3391	no	no	Not protected	Lit	no
KCA 5.4	Murray, R. et al.:	1999	Manual of clinical Microbiology 7th Edition Washington, D.C. : ASM Press 1999	no	no	Not protected	Lit	no
	Martel, C.; Nielsen, G. D.; Mari, A.; Licht, T.R.; Poulsen, L. K.;	2010	Bibliographic review on the potential of microorganisms, microbial products and enzymes to induce respiratory sensitization - Scientific / technical report submitted to EFSA EFSA Eur. Food Saf. Auth. GLP: No (4) Open (1) Published: Open (1) Yes (4) BVL-2466302, BVL-2569296, BVL-3306740, BVL-3306801, BVL-3306861, ASB2011-9441	No	No	Add	AOS LIT	no
	Volkman, L. E., Goldsmith, P. A.	1983	in vitro survey of autographa californica nuclear polyhedrosis Virus interaction with nontarget vertebrate host cells. Appl Environ Microbiol. 1983 Mar;45(3):1085-93. ASB2018-885	No	No	Add	AOS LIT	no

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	Hackl, E.; Pacher-Zavisin, M.; Sedman, L.; Arthaber, S.; Bernkopf, U.; Brader, G.; Gorfer, M.; Mitter, B.; Mitropoulou, A.; Schmoll, M.; van Hoesel, W.; Wischnitzky, E.; Sessitsch, A.	2015	Literature search and data collection on RA for human health for microorganisms used as plant protection products OC/EFSA/PRAS/2013/02 ! EFSA-Q-2013-00422 ! EFSA supporting publication 2015:EN-801 EFSA Journal GLP: No Published: Yes BVL-3306739, BVL-3306800, BVL-3306860, ASB2015-4072	No	No	Add	LIT	no
	SANCO	2018	Working Document on Microbial Contaminant Limits for Microbial Pest Control Products SANCO/12116/2012 –rev. 0; ENV/JM/MONO(2011)43 ASB2019-4942	No	No	Add	LIT	no
	OECD	2011	Environment directorate joint meeting of the chemicals committee and the working party on chemicals, oesticides and biotechnology. OECD issue paper on microbial contaminant limits for microbial pest control products. ENV/JM/MONO(2011)43, Series on Pesticides No. 65 ASB2019-4945	No	No	Add	LIT	no
	EFSA	2016	Scientific Opinion: Risks for public health related to the presence of Bacillus cereus and other Bacillus spp. including Bacillus thuringiensis in foodstuffs [EFSA Panel on Biological Hazards (BIOHAZ)] doi: 10.2903/j.efsa.2016.4524 ! EFSA-Q-2015-00254 ! EFSA Journal 2016;14(7):4524 EFSA Journal 2016;14(7):4524, EFSA-Q-2015-00254 ASB2016-9771	No	No	Add	LIT	no

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	Al-Joudi, A. S.	2007	An outbreak of foodborne diarrheal illness among soldiers in mina during hajj: the role of consumer food handlings behaviors. Journal of Family 30 & Community Medicine 2007; 14(1), 29-33 ASB2019-4970	No	No	Add	LIT	no
	Perera, M. L., Ranasinghe, G. R.	2012	Prevalence of Bacillus cereus and associated risk factors in chinese-style fried rice available in the city of colombo, sri lanka 10.1089/fpd.2011.0969 FOODBORNE PATHOGENS AND DISEASE Volume 9, Number 2, 2012 ASB2019-4989	No	No	Add	LIT	no
	Perera, M. L., Ranasinghe, G. R.	2012	Prevalence of Bacillus cereus and associated risk factors in chinese-style fried rice available in the city of colombo, sri lanka 10.1089/fpd.2011.0969 FOODBORNE PATHOGENS AND DISEASE Volume 9, Number 2, 2012 ASB2019-4989	No	No	Add	LIT	no
	Anon.		Experiment report 2005 - CARPOVIRUSINE 2000 - Sampling - Trial at Castelnaudary (11) ASB2011-2851	No	No	Add	LIT	no
	Théau-Audin, S.		Rapport d'analyse - Pommes fuji - peau ASB2011-2848	No	No	Add	LIT	no

A6.2 Product 1 Carpovirusine

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 7	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS- ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes BVL-3416321, BVL-3489330, TOX2003-1179	no	no	not protected	-	Y KIIIM 7
KMP 7.1.1	██████████	1991 ^a	ACUTE ORAL (GAVAGE) TOXICITY STUDY (SUBDIVISION F, NO 81-1) OF CPGV PAST IN RATS Arysta LifeScience S.A.S., BE-MT-99-91-04-AOR-01 ██████████ GLP/GEP: no Published: no BVL-3489317, TOX2006-2285	yes	no	not protected	ALS	Y KIIIM 7.1.1
KMP 7.1.2	Gröner, A., Huber, J., Krieg, A.	1978	INVESTIGATIONS WITH BACULOVIRUSES IN MAMMALS not available, not applicable Z Angew Zool, 65, 69-80 GLP/GEP: no Published: yes BVL-3489320, TOX2003-1154	no	no	not protected	-	Y KIIIM 7.1.3
KMP 7.1.3	██████████	2005	ACUTE DERMAL TOXICITY IN RATS Arysta LifeScience S.A.S., 30407 TAR ██████████ GLP: yes Published: no BVL-3485318, TOX2006-2297	yes	no	not protected	ALS	Y KIIIM 7.1.2

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KMP 7.2.1	██████████	1991	ACUTE DERMAL IRRITATION/CORROSION STUDY (SUBDIVISION F 81-5) OF CPGV PAST IN RABBITS Arysta LifeScience S.A.S., BE-MT-99-91-01-DIK-01 ██████████ GLP: yes Published: no BVL-3489322, TOX2006-2298	yes	no	not protected	ALS	Y KIIIM 7.1.4
KMP 7.2.1/01	Richeux, F.	2015	ASSESSMENT OF ACUTE DERMAL IRRITATION Arysta LifeScience S.A.S., IC-OCDE-PH-14/0612 Phycher Bio Developpement, Martillac, France GLP/GEP: no Published: no BVL-3306368, ASB2015-6896	yes	yes	New data for existing formula- tion, not pre- viously submit- ted nor evaluat- ed	ALS	N
KMP 7.2.2	██████████	1991	ACUTE EYE IRRITATION/INFECTION STUDY (SUBDIVISION M, NO. 152A-14) OF CPGV PAST IN RABBITS Arysta LifeScience S.A.S., BE-MT-99-91-02-EIK-01 ██████████ GLP: yes Published: no BVL-3489323, TOX2006-2299	yes	no	not protected	ALS	Y KIIIM 7.1.5
KMP 7.2.2/01	Richeux, F.	2015	ASSESSMENT OF ACUTE EYE IRRITATION Arysta LifeScience S.A.S., IO-OCDE-PH-14/0612 Phycher Bio développement, Cestas, F GLP: yes Published: no BVL-3306369, ASB2015-6897	yes	yes	New data for new formula- tion, not previ- ously submitted nor evaluated	ALS	N

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KMP 7.2.3	██████████	1991	ACUTE DERMAL SENSITIZATION STUDY (SUBDIVISION M, NO. 152A-15) OF CPGV PAST IN GUINEA PIGS (MAXIMIZATION TEST) Arysta LifeScience S.A.S., BE-MT-99-91-03-SIG-01 ██████████ GLP: yes Published: no BVL-3489324, TOX2006-2285	yes	no	not protected	ALS	Y KIIIM 7.1.6
KMP 7.2.3/01 1.additional sub- mission	Hackl, E., Pacher-Zavisin, M., Sedman, L., Arthaber, S., Bernkopf, U., Brader, G., Gorfer, M., Mitter, B., Mitropoulou, A., Schmoll, M., van Hoesel, W., Wischnitzky, E., Sessitsch, A.	2015	LITERATURE SEARCH AND DATA COLLECTION ON RA FOR HUMAN HEALTH FOR MICROORGANISMS USED AS PLANT PROTECTION PRODUCTS REFERENCE not available, not stated EFSA Journal, 2015 EN-801, 173pp GLP/GEP: no Published: yes BVL-3306739, ASB2015-4072	no	no	not protected	-	N
KMP 7.2.3/02 1.additional sub- mission	Martel, C., Nielsen, G.D., Mari, A., Licht, T.R., Poulsen, L.K.	2010	BIBLIOGRAPHIC REVIEW ON THE POTENTIAL OF MICROORGANISMS, MICROBIAL PRODUCTS AND ENZYMES TO INDUCE RESPIRATORY SENSITIZATION not available, not applicable EFSA Eur. Food Saf. Auth., CFP/EFSA/FEEDAP/2009, 1-95 GLP/GEP: no Published: yes BVL-3306740, ASB2011-9441	no	no	not protected	-	N

A6.3 Product 2 Madex

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 7	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes BVL-3416322, BVL-3306966, BWS2003-90	no	no	not protected	-	Y KIIIM 7
KMP 7.1	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS- ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes BVL-3416321, BVL-3489330, TOX2003-1179	no	no	not protected	-	Y KIIIM 7.1
KMP 7.1	Huber, J.	1978	ABOUT THE HOST SPECTRUM OF THE COD- LING MOTH GRANULOSIS VIRUS not available, not applicable Safety aspects of baculoviruses as Biological Insecti- cides, 75-85 GLP/GEP: no Published: yes BVL-3553049, TOX2003-1180	no	no	not protected	-	Y KIIIM 7.1

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Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 7.1	Gröner, A.	1990	CYDIA POMONELLA GRANULOSUS VIRUS (CPGV) HOE 083311 SUMMARY AND CONCLUSIONS ON THE TOXICITY Andermatt Biocontrol GmbH / Probis GmbH, not applicable AgrEvo, Hoechst and Schering, Marburg, Germany GLP/GEP: no Published: no BVL-3416267, TOX2005-1876	no	no	not protected	PKA	Y KIIIM 7.1
KMP 7.1.1	██████	1980	TOLERANCE TESTING OF ACNPV NUCLEAR POLYHEDROSIS VIRUS FOLLOWING SINGLE-DOSE ADMINISTRATION TO SPF WISTAR RATS Andermatt Biocontrol GmbH / Probis GmbH, 595, 234/80 ████████████████████ GLP: yes Published: no BVL-3416319, TOX2003-1149	yes	no	not protected	PKA	Y KIIIM 7.1.1
KMP 7.1.2	██████	1992	HOE 083311; WATER MISCIBLE SUSPENSION CONCENTRATE: 2.2*10 EXP. 13 VIR./1 (CODE:) TESTING FOR RESPIRATORY SENSITIZATION IN THE MALE AND FEMALE PIRBRIGHT WHITE GUINEA PIG Andermatt Biocontrol GmbH / Probis GmbH, 90.0689, 91.1096 ████████████████████ GLP: yes Published: no TOX2003-1148	yes	no	not protected	PKA	Y KIIIM 7.1.3

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KMP 7.1.3 KMP 7.2.3	██████████ ████	1986	HOE 083311 OI LC08 A101 TESTING FOR SENSITISING PROPERTIES OF ON PIRPBRIGHT-WHITE GUINEA PIGS BY THE METHOD OF LANDSTEINER Andermatt Biocontrol GmbH / Probis GmbH, 861169, 86.1373 ████████████████████ GLP: yes Published: no TOX2003-1147	yes	no	not protected	PKA	Y KIIIM 7.1.2
KMP 7.1.3	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes BVL-3416320, TOX2003-1155	no	no	not protected	-	Y KIIIM 7.1.2
KMP 7.2.1	██████████	1998	ACUTE DERMAL IRRITATION/CORROSION GRANUMPOM SC (CPGV) Andermatt Biocontrol GmbH / Probis GmbH, 98 10 42 829 ████████████████████ GLP: yes Published: no BVL-3416342, TOX2003-1184	yes	no	not protected	PKA	Y KIIIM 7.1.4

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KMP 7.2.2	██████	1993	HOE 083311; WATERMISCIBLE SUSPENSION CONCENTRATE; 2.2*10 EXP. 13 VIR./ML (CODE: HOE 083311 00 SC13 A401) TESTING FOR PRIMARY EYE IRRITATION IN THE RABBIT Andermatt Biocontrol GmbH / Probis GmbH, 93.0485, 93.0567 ████████████████████ GLP: yes Published: no BVL-3416343, TOX2003-1185	yes	no	not protected	PKA	Y KIIIM 7.1.5
KMP 7.2.3	██████████ ████	1986	HOE 083311 OI LC08 A101 TESTING FOR SENSITISING PROPERTIES OF ON PIRPBRIGHT-WHITE GUINEA PIGS BY THE METHOD OF LANDSTEINER Andermatt Biocontrol GmbH / Probis GmbH, 861169, 86.1373 ████████████████████ GLP: yes Published: no Submitted in: KMP 7.1.3	yes	no	not protected	PKA	Y KIIIM 7.1.6
KMP 7.3/01 1.additional submission	Hackl, E., Pacher-Zavisin, M., Sedman, L., Arthaber, S., Bernkopf, U., Brader, G., Gorfer, M., Mitter, B., Mitropoulou, A., Schmoll, M., van Hoesel, W., Wischnitzky, E., Sessitsch, A.	2015	LITERATURE SEARCH AND DATA COLLECTION ON RA FOR HUMAN HEALTH FOR MICROORGANISMS USED AS PLANT PROTECTION PRODUCTS REFERENCE not available, not stated EFSA Journal, 2015 EN-801, 173pp GLP/GEP: no Published: yes BVL-3306860, ASB2015-4072	no	no	not protected	-	N

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KMP 7.3/02 1.additional submission	Martel, C., Nielsen, G.D., Mari, A., Licht, T.R., Poulsen, L.K.	2010	BIBLIOGRAPHIC REVIEW ON THE POTENTIAL OF MICROORGANISMS, MICROBIAL PRODUCTS AND ENZYMES TO INDUCE RESPIRATORY SENSITIZATION not available, not applicable EFSA Eur. Food Saf. Auth., CFP/EFSA/FEEDAP/2009, 1-95 GLP/GEP: no Published: yes BVL-3306861, ASB2011-9441	no	no	not protected	-	N

A6.4 Product 3 Madex Twin

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 7	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes BVL-34163320, BVL-3306966, BWS2003-90	no	no	not protected	-	Y KIIIM 7
KMP 7.1	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS- ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes BVL-3416321, BVL-3489330, TOX2003-117	no	no	not protected	-	Y KIIIM 7.1
KMP 7.1	Huber, J.	1978	ABOUT THE HOST SPECTRUM OF THE COD- LING MOTH GRANULOSIS VIRUS not available, not applicable Safety aspects of baculoviruses as Biological Insecti- cides, 75-85 GLP/GEP: no Published: yes BVL-3553049, TOX2003-1180	no	no	not protected	-	Y KIIIM 7.1

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KMP 7.1	Gröner, A.	1990	CYDIA POMONELLA GRANULOSUS VIRUS (CPGV) HOE 083311 SUMMARY AND CONCLUSIONS ON THE TOXICITY Andermatt Biocontrol GmbH / Probis GmbH, not applicable AgrEvo, Hoechst and Schering, Marburg, Germany GLP/GEP: no Published: no BVL-3416267, TOX2005-1876	no	no	not protected	PKA	Y KIIIM 7.1
KMP 7.1.1	██████	1980	TOLERANCE TESTING OF ACNPV NUCLEAR POLYHEDROSIS VIRUS FOLLOWING SINGLE-DOSE ADMINISTRATION TO SPF WISTAR RATS Andermatt Biocontrol GmbH / Probis GmbH, 595, 234/80 ████████████████████ GLP: yes Published: no BVL-3416319, TOX2003-1149	yes	no	not protected	PKA	Y KIIIM 7.1.1
KMP 7.1.2	██████	1992	HOE 083311; WATER MISCIBLE SUSPENSION CONCENTRATE: 2.2*10 EXP. 13 VIR./1 (CODE:) TESTING FOR RESPIRATORY SENSITIZATION IN THE MALE AND FEMALE PIRBRIGHT WHITE GUINEA PIG Andermatt Biocontrol GmbH / Probis GmbH, 90.0689, 91.1096 ████████████████████ GLP: yes Published: no BVL-3416316, TOX2003-1148	yes	no	not protected	PKA	Y KIIIM 7.1.3

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KMP 7.1.3 KMP 7.2.3	██████████ ████	1986	HOE 083311 OI LC08 A101 TESTING FOR SENSITISING PROPERTIES OF ON PIRPBRIGHT-WHITE GUINEA PIGS BY THE METHOD OF LANDSTEINER Andermatt Biocontrol GmbH / Probis GmbH, 861169, 86.1373 ████████████████████ GLP: yes Published: no BVL-3416317, TOX2003-1147	yes	no	not protected	PKA	Y KIIIM 7.1.2
KMP 7.1.3	Ignoffo, C.M., Huang, H.T., Shapiro, M., Woodard, G.	1975	INSUSCEPTIBILITY OF THE RHESUS MONKEY, MACACA MULATTA, TO AN INSECT VIRUS, BACULOVIRUS HELIOTHIS not available, not applicable GLP/GEP: no Published: yes BVL-3416320, TOX2003-1155	no	no	not protected	-	Y KIIIM 7.1.2
KMP 7.2.1	██████████	1998	ACUTE DERMAL IRRITATION/CORROSION GRANUMPOM SC (CPGV) Andermatt Biocontrol GmbH / Probis GmbH, 98 10 42 829 ████████████████████ GLP: yes Published: no BVL-3416342, TOX2003-1184	yes	no	not protected	PKA	Y KIIIM 7.1.4

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KMP 7.2.2	██████	1993	HOE 083311; WATERMISCIBLE SUSPENSION CONCENTRATE; 2.2*10 EXP. 13 VIR./ML (CODE: HOE 083311 00 SC13 A401) TESTING FOR PRIMARY EYE IRRITATION IN THE RABBIT Andermatt Biocontrol GmbH / Probis GmbH, 93.0485, 93.0567 ████████████████████ GLP: yes Published: no BVL-3416343, TOX2003-1185	yes	no	not protected	PKA	Y KIIIM 7.1.5
KMP 7.2.3	██████████ ████	1986	HOE 083311 OI LC08 A101 TESTING FOR SENSITISING PROPERTIES OF ON PIRPBRIGHT-WHITE GUINEA PIGS BY THE METHOD OF LANDSTEINER Andermatt Biocontrol GmbH / Probis GmbH, 861169, 86.1373 ████████████████████ GLP: yes Published: no Submitted in: KMP 7.1.3	yes	no	not protected	PKA	Y KIIIM 7.1.6
KMP 7.3/01 1.additional submission	Hackl, E., Pacher-Zavisin, M., Sedman, L., Arthaber, S., Bernkopf, U., Brader, G., Gorfer, M., Mitter, B., Mitropoulou, A., Schmoll, M., van Hoesel, W., Wischnitzky, E., Sessitsch, A.	2015	LITERATURE SEARCH AND DATA COLLECTION ON RA FOR HUMAN HEALTH FOR MICROORGANISMS USED AS PLANT PROTECTION PRODUCTS REFERENCE not available, not stated EFSA Journal, 2015 EN-801, 173pp GLP/GEP: no Published: yes BVL 3306860, ASB2015-4072	no	no	not protected	-	N

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KMP 7.3/02 1.additional submission	Martel, C., Nielsen, G.D., Mari, A., Licht, T.R., Poulsen, L.K.	2010	BIBLIOGRAPHIC REVIEW ON THE POTENTIAL OF MICROORGANISMS, MICROBIAL PRODUCTS AND ENZYMES TO INDUCE RESPIRATORY SENSITIZATION not available, not applicable EFSA Eur. Food Saf. Auth., CFP/EFSA/FEEDAP/2009, 1-95 GLP/GEP: no Published: yes BVL-3306861, ASB2011-9441	no	no	not protected	-	N

A6.5 Product 4 Virgo

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 7.1.1	████████	2005	ACUTE ORAL TOXICITY STUDY OF VIRGO IN CD RATS Sipcam S.p.A., 18974/05 ██ ████████ GLP: yes Published: no BVL-3538436, TOX2006-1692	yes	no	not protected	SIP	Y KIIIM 7.1.1
KMP 7.1.2	████████	2005	ACUTE INHALATION TOXICITY STUDY OF VIRGO IN RATS Sipcam S.p.A., 19016/05 ██ ████████ GLP: yes Published: no BVL-3538437, TOX2006-1054	yes	no	not protected	SIP	Y KIIIM 7.1.3
KMP 7.1.3	████████	2005	ACUTE DERMAL TOXICITY STUDY OF VIRGO IN CD RATS Sipcam S.p.A., 18975/05 ██ ████████ GLP: yes Published: no BVL-3553325, TOX2006-1058	yes	no	not protected	SIP	Y KIIIM 7.1.2
KMP 7.2.1	████████	2005	ACUTE DERMAL IRRITATION/CORROSION TEST (PATCH TEST) OF VIRGO IN RABBITS Sipcam S.p.A., 18976/05 ██ ████████ GLP: yes Published: no BVL-3538438, TOX2006-1059	yes	no	not protected	SIP	Y KIIIM 7.1.4

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Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 7.2.2	[REDACTED]	2005	ACUTE EYE IRRITATION/CORROSION TEST OF VIRGO IN RABBITS Sipcam S.p.A., 18977/05 [REDACTED] GLP: yes Published: no BVL-3538439, TOX2006-1060	no	no	not protected	SIP	Y KIIIM 7.1.5
KMP 7.2.3	[REDACTED]	2005	EXAMINATION OF VIRGO IN THE SKIN SENSITISATION TEST IN GUINEA PIGS ACCORDING TO MAGNUSSON AND KLIGMAN (MAXIMISATION TEST) Sipcam S.p.A., 18978/05 [REDACTED] GLP: yes Published: no BVL-3538440, TOX2006-1050	yes	no	not protected	SIP	Y KIIIM 7.1.6
KMP 7.2.3/02 1. additional submission	Hackl, E., Pacher-Zavisin, M., Sedman, L., Arthaber, S., Bernkopf, U., Brader, G., Gorfer, M., Mitter, B., Mitropoulou, A., Schmoll, M., van Hoesel, W., Wischnitzky, E., Sessitsch, A.	2015	LITERATURE SEARCH AND DATA COLLECTION ON RA FOR HUMAN HEALTH FOR MICROORGANISMS USED AS PLANT PROTECTION PRODUCTS REFERENCE not available, not stated EFSA Journal, 2015 EN-801, 173pp GLP/GEP: no Published: yes BVL-3306739, ASB2015-4072	no	no	not protected	-	N

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KMP 7.2.3/03 1. additional submission	Martel, C., Nielsen, G.D., Mari, A., Licht, T.R., Poulsen, L.K.	2010	BIBLIOGRAPHIC REVIEW ON THE POTENTIAL OF MICROORGANISMS, MICROBIAL PRODUCTS AND ENZYMES TO INDUCE RESPIRATORY SENSITIZATION not available, not applicable EFSA Eur. Food Saf. Auth., CFP/EFSA/FEEDAP/2009, 1-95 GLP/GEP: no Published: yes BVL-3306740, ASB2011-9441	no	no	not protected	-	N
KMP 7.2.3/04 1. additional submission	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHE-DROSIS VIRUSES: SAFETY ASPECTS CONCERNING THER PRODUCTION AN APPLI-CATION [GERMAN ORIGINAL] not available, not applicable Z. angew. Entomol., 82, 129-134 GLP/GEP: no Published: yes BVL-3306966, BVL-3146322, BWS2003-90	no	no	not protected	-	N

A.7 Residue data

A7.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously sub- mitted Y/N* If Y => old data point
KMA 6.1	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHE- DROSIS VIRUSES: SAFETY ASPECTS CON- CERNING THEIR PRODUCTION AND AP- PLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes BVL-3415107, BVL-3538405, RIP2006-1339 , BWS2003-90	no	no	not protected	-	Y KIIM 6.1
KMA 6.1	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHE- DROSIS VIRUSES: SAFETY ASPECTS CON- CERNING THEIR PRODUCTION AND AP- PLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes Submitted in: KMA 6.1 RIP2006-1339 , BWS2003-90	no	no	not protected	-	Y KIIM 6.2

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KMA 6.1/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - RESIDUES IN OR ON TREATED PRODUCTS, FOOD AND FEED Arysta LifeScience S.A.S., not applicable Arysta Lifescience, France GLP/GEP: no Published: no BVL-3306480, ASB2017-11932	no	yes	New data for exist- ing formulation, not previously submit- ted nor evaluated	ALS	N
KMA 6.1/02	Jeyarani, S., Sathiah, N., Karuppuchamy, P.	2013	AN IN VITRO METHOD FOR INCREASING UV-TOLERANCE IN A STRAIN OF HELI- COVERPA ARMIGERA (LEPIDOPTERA: NOCTUIDAE) NUCLEOPOLYHEDROVIRUS not available, not applicable Biocontrol Science and Technology, 23, 305-316 GLP/GEP: no Published: yes BVL-3306481 , ASB2017-11931	no	no	not protected	-	N
KMA 6.1/03	Prater, C.A., Redmond, C.T., Barney, W., Bon- ning, B.C., Potter, D.A.	2006	MICROBIAL CONTROL OF BLACK CUT- WORM (LEPIDOPTERA: NOCTUIDAE) IN TURFGRASS USING AGROTIS IPSILON MULTIPLE NUCLEOPOLYHEDROVIRUS not available, not applicable Journal of Economic Entomology, 99, 1129-1137 GLP/GEP: no Published: yes BVL-3306482 , ASB2017-11933	no	no	not protected	-	N

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously sub- mitted Y/N* If Y => old data point
KMA 6.1/04	Pessoa, V., Cunha, F., de Freitas Bueno, A., Ceo- lin Bortolotto, O., Mon- teiro, T., Ramos, V.M.	2014	VELVET-BEAN NUCLEOPOLYHE- DROVIRUS PERSISTENCE AFTER DIFFER- ENT RAINFALL INTENSITIES not available, not applicable Ciencia Rural, 44, 5-10 GLP/GEP: no Published: yes BVL-3306483, ASB2017-11934	no	no	not protected	-	N

A7.2 Product 1 Carpovirusine

No references submitted.

A7.3 Product 2 Madex

No references submitted.

A7.4 Product 3 Madex Twin

No references submitted.

A7.5 Product 4 Virgo

No references submitted.

A.8 Environmental fate and behaviour

A8.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 7/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - FATE AND BEHAVIOUR IN THE ENVIRONMENT Arysta LifeScience S.A.S., not applicable Arysta Lifescience, France GLP/GEP: no Published: no 3306484	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N
KMA 7.1.1	Kienzle, J., Schulz, C., Zebitz, C.P.W., Huber, J.	2003	PERSISTENCE OF THE BIOLOGICAL EFFECT OF CODLING MOTH GRANULOVIRUS IN THE ORCHARD -PRELIMINARY FIELD TRIALS not available, not applicable Insect Pathogens and Insect Parasitic Nematodes, IOBC wprs Bulletin, 26 (1), 245-248 GLP/GEP: no Published: yes 3683014	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Young, S.	2003	PERSISTENCE OF VIRUSES IN THE ENVIRONMENT not available, not applicable http://www.lsuagcenter.com/s265/young.htm GLP/GEP: no Published: yes 3683094	no	no	not protected	-	Y KIIM 7.1.1

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KMA 7.1.1	Jaques, R.P., Harcourt, D.G.	1971	VIRUSES OF TRICHOPLUSIA NI (LEPIDOPTERA: NOCTUIDAE) AND PIERIS RAPAE (LEPIDOPTERA: PIERIDAE) IN SOIL IN FIELDS OF CRUCIFERS IN SOUTHERN ONTARIO not available, not applicable The Canadian Entomologist, Journal, 103, 1285-1290 GLP/GEP: no Published: yes 3683087	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Thomas, E.D., Reichelderfer, C.F., Heimpel, A.M.	1973	THE EFFECT OF SOIL PH ON THE PERSISTENCE OF CABBAGE LOOPER NUCLEAR POLYHEDROSIS VIRUS IN SOIL not available, not applicable Journal of invertebrate Pathology, 21, 21-25 GLP/GEP: no Published: yes 3683018	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Evans, H.F., Harap, K.A.	1982	PERSISTENCE OF INSECT VIRUSES not available, not applicable Virus Persistence, Publisher: Cambridge University Press, 58-96 GLP/GEP: no Published: yes 3683022	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Ogaard, L., Williams, C.F., Payne, C.C., Zethner, O.	1988	ACTIVITY PERSISTENCE OF GRANULOSIS VIRUSES (BACULOVIRIDAE) IN SOILS IN UNITED KINGDOM AND DENMARK not available, not applicable Entomophaga, 33 (1), 73-80 GLP/GEP: no Published: yes 3683088	no	no	not protected	-	Y KIIM 7.1.1

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KMA 7.1.1	Jaques, R.P.	1974a	OCCURRENCE AND ACCUMULATION OF VIRUSES OF TRICHOPLUSIA NI IN TREATED FIELD PLOTS not available, not applicable Journal of invertebrate Pathology, 23, 140-152 GLP/GEP: no Published: yes 3683089	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Jaques, R.P.	1974b	OCCURRENCE AND ACCUMULATION OF THE GRANULOSIS VIRUS OF PIERIS RAPAE IN TREATED FIELD PLOTS not available, not applicable Journal of invertebrate Pathology, 23, 351-359 GLP/GEP: no Published: yes 3683090	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Tanada, Y., Omi, E.M.	1974	PERSISTENCE OF INSECT VIRUSES IN FIELD POPULATIONS OF ALFALFA INSECTS not available, not applicable Journal of Invertebrate Pathology 23, 360-365 GLP/GEP: no Published: yes 3682711	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Jaques, R.A.	1977	STABILITY OF ENTOMOPATHOGENIC VIRUSES not available, not applicable Miscellaneous Publication of the Entomological Society of America, 10 (3), 99 - 116 GLP/GEP: no Published: yes 3682725	no	no	not protected	-	Y KIIM 7.1.1

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KMA 7.1.1	David, W.A.L., Gardiner, B.O.C.	1967	THE PERSISTENCE OF A GRANULOSIS VIRUS OF PIERIS BRASSICAE IN SOIL AND IN SAND not available, not applicable Journal of Invertebrate Pathology 9, 342-347 GLP/GEP: no Published: yes 3683041	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Anonymous	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMENTAL APPLICATIONS INVOLVING BACULOVIRUS not available, not applicable ENV/JM/MONO, 1, 1-90 GLP/GEP: no Published: yes 3683011	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1	Thompson, C. G., Scott, D.W. & Wickman, B. E.	1981	LONG-TERM PERSISTENCE OF NUCLEAR POLYHEDROSIS VIRUS OF THE DOUGLAS-FIR TUSsock MOTH, ORGYIA PSEUDOTSUGATA (LEPIDOPTERA: LYMANTRIIDAE) IN FOREST SOIL not available, not applicable Environ Entomol, 10, 254-255 GLP/GEP: no Published: yes	no	no	not protected	-	Y Report included in DAR by RMS
KMA 7.1.1	Eastwell, K. C., Cossentine, J. E. & Bernardy, M. G.	1999	CHARACTERISATION OF CYDIA POMONELLA GRANULOVIRUS FROM CODLING MOTHS IN A LABORATORY COLONY AND IN ORCHARDS OF BRITISH COLOMBIA not available, not applicable Annals of Applied Biology, 134, 285-291 GLP/GEP: no Published: yes	no	no	not protected	-	Y Report included in DAR by RMS

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KMA 7.1.1	Lopez-Pila, J.M.	1988	EFFECT OF BACULOVIRUSES ON GROUNDWATER AND DRINKING WATER (GERMAN ORIGINAL) not available, not applicable In: Mitteilung aus der Biol. Bundesanstalt, 246, p 178-203 GLP/GEP: no Published: yes 3683092	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.1.1/01	Christian, P.D., Richards, A.R., Williams, T.	2006	DIFFERENTIAL ADSORPTION OF OCCLUDED AND NONOCCLUDED INSECT-PATHOGENIC VIRUSES TO SOIL-FORMING MINERALS not available, not applicable Applied and Environmental Microbiology, 72, 4648-4652 GLP/GEP: no Published: yes 3306485	no	no	not protected	-	N
KMA 7.1.1/02	Gupta, R.K., Gani, M., Jasrotia, P., Srivastava, K., Kaul, V.	2014	A COMPARISON OF INFECTIVITY BETWEEN POLYHEDRA OF THE SPODOPTERA LITURA MULTIPLE NUCLEOPOLYHEDROVIRUS BEFORE AND AFTER PASSAGE THROUGH THE GUT OF THE STINK BUG, EOCANTHECONA FURCELLATA not available, not applicable Journal of Insect Science, 14, 1-8 GLP/GEP: no Published: yes 3306486	no	no	not protected	-	N

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KMA 7.1.2	Jaques, R.A.	1977	STABILITY OF ENTOMOPATHOGENIC VIRUSES not available, not applicable Miscellaneous Publication of the Entomological Society of America, 10 (3), 99 - 116 GLP/GEP: no Published: yes Submitted in: KMA 7.1.1 3683032	no	no	not protected	-	Y KIIM 7.1.2
KMA 7.1.2/01	Holmes, S.B., Fick, W.E., Kreutzweiser, D., Ebeling, P.M., England, L.S., Trevors, J.T.	2008	PERSISTENCE OF NATURALLY OCCURRING AND GENETICALLY MODIFIED CHORISTONEURA FUMIFERANA NUCLEOPOLYHEDROVIRUSES IN OUTDOOR AQUATIC MICROCOSMS not available, not applicable Pest Management Science, 64, 1015 - 1023 GLP/GEP: no Published: yes 3306487	no	no	not protected	-	N
KMA 7.1.3	Krieg, A., Gröner, A., Huber, J., Zimmermann, G.	1981	INACTIVATION OF CERTAIN INSECT PATHOGENS BY ULTRAVIOLET RADIATION not available, not applicable Journal of Plant Diseases and Protection, 88 (1), 38-48 GLP/GEP: no Published: yes 3683044	no	no	not protected	-	Y KIIM 7.1.3
KMA 7.1.3	Steineke, S.B.	2004	POPULATIONSDYNAMIK DES CYDIA POMONELLA GRANULOVIRUS not available, not stated Johannes Gutenberg-Universität, Fachbereich Biologie, Mainz GLP/GEP: no Published: no 2390213	no	no	not protected		Y KIIM 7.1

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KMA 7.1.3/01	Arthurs, S.P., Lacey, L.A., Behle, R.W.	2006	EVALUATION OF SPRAY-DRIED LIGNIN-BASED FORMULATIONS AND ADJUVANTS AS SOLAR PROTECTANTS FOR THE GRANULOVIRUS OF THE COLDING MOTH, CYDIA POMONELLA (L) not available, not applicable Journal of Invertebrate Pathology, 93, 88-95 GLP/GEP: no Published: yes 3306488	no	no	not protected	-	N
KMA 7.1.3/02	Wu, Z.W., Fan, J.B., Yu, H., Wang, D., Zhang, Y.L.	2015	ULTRAVIOLET PROTECTION OF THE CYDIA POMONELLA GRANULOVIRUS USING ZINC OXIDE AND TITANIUM DIOXIDE not available, not applicable Biocontrol Science and Technology, 25, 97-107 GLP/GEP: no Published: yes 3306489	no	no	not protected	-	N
KMA 7.2	Krieg, A.	1983	TESTING OF A NUCLEAR POLYHEDROSIS PREPARATION MBNPV (UNFORMULATED) FOR LEACHING BEHAVIOUR (GERMAN ORIGINAL) Andermatt Biocontrol GmbH / Probis GmbH, A55490 BBA, Darmstadt, Germany GLP/GEP: no Published: no 3683091	no	no	not protected	PKA	Y KIIM 7.1.1

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 7.2	Lopez-Pila, J.M.	1988	EFFECT OF BACULOVIRUSES ON GROUNDWATER AND DRINKING WATER (GERMAN ORIGINAL) not available, not applicable In: Mitteilung aus der Biol. Bundesanstalt, 246, p 178-203 GLP/GEP: no Published: yes Submitted in: KMA 7.1.1 3683092	no	no	not protected	-	Y KIIM 7.1.1
KMA 7.2	Steineke, S.B.	2004	POPULATIONSDYNAMIK DES CYDIA POMONELLA GRANULOVIRUS not available, not stated Johannes Gutenberg-Universität, Fachbereich Biologie, Mainz GLP/GEP: no Published: no Submitted in: KMA 7.1.3 2390213	no	no	not protected		Y KIIM 7.1

A8.2 Product 1 Carpovirusine

No references submitted.

A8.3 Product 2 Madex

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMP 9	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUS- ES: SAFETY ASPECTS CONCERNING THEIR PRODUC- TION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes 1914006	no	no	not protected	-	Y KIIM 9

A8.4 Product 3 Madex Twin

No references submitted.

A8.5 Product 4 Virgo

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data pro- tection claimed Y/N	Justification if data protection is claimed	Owner	Previously submit- ted Y/N* If Y => old data point
KMP 9	Krieg, A.	1976	GRANULOSIS AND NUCLEAR POLYHEDROSIS VIRUSES: SAFETY ASPECTS CONCERNING THEIR PRODUCTION AND APPLICATION not available, not applicable Z Angew Entomol, 82, 129-134 GLP/GEP: no Published: yes 1914006	no	no	not protected	-	Y KIIM 9

A.9 Ecotoxicology data

A9.1 Active substance

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 8/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - EFFECTS ON NON-TARGET ORGANISMS Arysta LifeScience S.A.S., not applicable not available GLP/GEP: no Published: no 3306490	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N
KMA 8.1	Ignoffo, C.M.	1975	EVALUATION OF IN VIVO SPECIFICITY OF INSECT VIRUSES not available, not applicable In: Baculoviruses for insect pest control: Safety considerations ... Publisher: American Society for Microbiology, 52-57 GLP/GEP: no Published: yes 3683296	no	no	not protected	-	Y KIIM 8.1

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KMA 8.1	Martignoni, M.E.	1978	THE DOUGLAS-FIR TUSsock MOTH: A SYN-THESIS not available, not applicable Forest Ser. Tech. Bulletin 1585. U.S. Dep. of Agriculture, ed. by: Brookes, M.H., Stark, R.W., Campell, R.W. GLP/GEP: no Published: yes 3683297	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Lautenschlager, R.A., Rothenbacher, H., Podgwaite, J.D.	1979	RESPONSE OF BIRDS TO AERIAL APPLICATION OF THE NUCLEOPOLYHEDROSIS VIRUS OF THE GYPSY MOTH, LYMANTRIA DISPAR not available, not applicable Environ. Entomol. 8, pp. 760-764 GLP/GEP: no Published: yes 3683299	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Burges, H.D., Croizier, G., Huber, J.	1980	A REVIEW OF SAFETY TESTS ON BACULOVIRUSES not available, not applicable Entomophaga 25 (4), 329-339 GLP/GEP: no Published: yes 3683298	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD INTEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agriculture, 1584, 475-479 GLP/GEP: no Published: yes 3683300	no	no	not protected	-	Y KIIM 8.1

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KMA 8.1	Burges, H.D.	1981	MICROBIAL CONTROL OF PESTS AND PLANT DISEASES 1970-1980 not available, not applicable Microbial control of pests and plant diseases, Academic Press, pp. 392-393, ed. Burges H.D. GLP/GEP: no Published: yes 3683570	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Gröner, A., Döller, G.	1982	PASSAGE OF INFECTIOUS NUCLEAR POLYHE-DROSIS VIRUS BY MICE AND CHICKENS not available, not applicable Entomophagna 27 (2), 155-157 GLP/GEP: no Published: yes 3683303	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Xuebao, W.	1982	SAFETY TESTS OF A GV INSECTICIDE AGAINST CABBAGE BUTTERFLY PIERIS RAPAE LARVAE not available, not applicable RAE Serie A, 70 (4), 2368 GLP/GEP: no Published: yes 3683558	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Gröner, A.	1990	SAFETY TO NONTARGET INVERTEBRATES OF BACULOVIRUSES not available, not applicable Safety of microbial insecticides, Laird M., Lacey L.A., Davidson E.W., Chapter 10, 135-147 GLP/GEP: no Published: yes 3683559	no	no	not protected	-	Y KIIM 8.1

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KMA 8.1	Lautenschlager, R.A., Podgwaite, J.D., Watson, D.E.	1980	NATURAL OCCURRENCE OF THE NUCLEO-POLYHEDROSIS VIRUS OF THE GYPSY MOTH, LYMANTRIA DISPAR (LEP.: LYMANTRIIDAE) IN WILD BIRDS AND MAMMALS not available, not applicable Entomophaga, 25 (3), 261-267 GLP/GEP: no Published: yes 3683560	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Entwistle, P.F., Adams, P.H.W., Evans, H.F.	1978	EPIZOOTIOLOGY OF A NUCLEAR POLYHEDROSIS VIRUS IN EUROPEAN SPRUCE SAWFLY (GILPINIA HERCYNIAE): THE RATE OF PASSAGE OF INFECTIVE VIRUS THROUGH THE GUT OF BIRDS DURING CAGE TESTS not available, not applicable Journal of Invertebrate Pathology 31, 307-312, 1978 GLP/GEP: no Published: yes 3683561	no	no	not protected	-	Y KIIM 8.1
KMA 8.1	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUSES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes 3683563	no	no	not protected	-	Y KIIM 8.1

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KMA 8.2.1	Banowitz, G.M., Fryer, J.L., Iwai P.J., Martignoni, M.E.	1976	EFFECTS OF THE DOUGLAS-FIR TUSSOCK MOTH NUCLEOPOLYHEDROSIS VIRUS (BACU- LOVIRUS) ON THREE SPECIES OF SALMONID FISH not available, not applicable USDA Forest Service Research Paper-PNW 214 GLP/GEP: no Published: yes 3683920	no	no	not protected	-	Y KIIM 8.2
KMA 8.2.1	Gröner, A., Huber, J., Krieg, A.	1981	USE OF BACULOVIRUSES IN CROP PROTEC- TION: SAFETY TO AQUATIC ORGANISMS (GERMAN ORIGINAL) not available, not applicable Z Binnenfischerei, 31 (4), 25-27 GLP/GEP: no Published: yes 3683565	no	no	not protected	-	Y KIIM 8.2
KMA 8.2.1	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS- ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683912	no	no	not protected	-	Y KIIM 8.2

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KMA 8.2.1	Gröner, A.	1990	SAFETY TO NONTARGET INVERTEBRATES OF BACULOVIRUSES not available, not applicable Safety of microbial insecticides, Laird M., Lacey L.A., Davidson E.W., Chapter 10, 135-147 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683806	no	no	not protected	-	Y KIIM 8.2
KMA 8.2.1	Hicks, B.D., Geraci, J.R., Cunningham, J.C., Arif, B.M.	1981	EFFECTS OF RED-HEADED PINE SAWFLY, NE-ODIPRION LECONTEI, NUCLEAR POLYHEDROSIS VIRUS ON RAINBOW TROUT, SALMO GAIARDNERI AND DAPHNIA PULEX not available, not applicable J. Environ. SCI. Health, B16 (4), pp. 493-509 GLP/GEP: no Published: yes 3683926	no	no	not protected	-	Y KIIM 8.2
KMA 8.2.1	Burges, H.D., Croizier, G., Huber, J.	1980	A REVIEW OF SAFETY TESTS ON BACULOVIRUSES not available, not applicable Entomophaga 25 (4), 329-339 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683610	no	no	not protected	-	Y KIIM 8.2

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KMA 8.2.1	Burges, H.D.	1981	MICROBIAL CONTROL OF PESTS AND PLANT DISEASES 1970-1980 not available, not applicable Microbial control of pests and plant diseases, Academic Press, pp. 392-393, ed. Burges H.D. GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683301	no	no	not protected	-	Y KIIM 8.2
KMA 8.2.1	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD INTEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agriculture, 1584, 475-479 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683800	no	no	not protected	-	Y KIIM 8.2
KMA 8.2.1	Xuebao, W.	1982	SAFETY TESTS OF A GV INSECTICIDE AGAINST CABBAGE BUTTERFLY PIERIS RAPAE LARVAE not available, not applicable RAE Serie A, 70 (4), 2368 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683905	no	no	not protected	-	Y KIIM 8.2

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KMA 8.2.1	Ignoffo, C.M.	1975	EVALUATION OF IN VIVO SPECIFICITY OF INSECT VIRUSES not available, not applicable In: Baculoviruses for insect pest control: Safety considerations ... Publisher: American Society for Microbiology, 52-57 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683600	no	no	not protected	-	Y KIIM 8.2
KMA 8.2.1	Ashour, M.B., Ragheb, D.A., El-Sheikh, E.S.A., Gomaa, E.A.A., Kamita, S.G., Hammock, B.D.	2007	BIOSAFETY OF RECOMBINANT AND WILD TYPE NUCLEOPOLYHEDROVIRUSES AS BIOINSECTICIDES not available, not applicable International Journal of Environmental Research and Public Health, 4(2), 111-125 GLP/GEP: no Published: yes 3306476	no	no	not protected	-	N
KMA 8.2.1	Kreutzweiser D.P., Ebling P.M., Holmes S.B.	1997	INFECTIVITY AND EFFECTS OF GYPSY MOTH AND SPRUCE BUDWORM NUCLEAR POLYHEDROSIS VIRUSES INGESTED BY RAINBOW TROUT. not available, not applicable Ecotoxicology and Environmental Safety, 38(1), 63-70 GLP/GEP: no Published: yes	no	no	not protected	-	N
KMA 8.2.2	Copping, L.G.	2001	CYDIA POMONELLA GRANULOSIS VIRUS not available, not applicable The BioPesticide Manual, pp. 60-61 GLP/GEP: no Published: yes 3683588	no	no	not protected	-	Y KIIM 8.3

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KMA 8.2.2	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUS-ES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683913	no	no	not protected	-	Y KIIM 8.3
KMA 8.2.2	Gröner, A.	1990	SAFETY TO NONTARGET INVERTEBRATES OF BACULOVIRUSES not available, not applicable Safety of microbial insecticides, Laird M., Lacey L.A., Davidson E.W., Chapter 10, 135-147 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683807	no	no	not protected	-	Y KIIM 8.3
KMA 8.2.2	Hicks, B.D., Geraci, J.R., Cunningham, J.C., Arif, B.M.	1981	EFFECTS OF RED-HEADED PINE SAWFLY, NE-ODIPRION LECONTEI, NUCLEAR POLYHEDROSIS VIRUS ON RAINBOW TROUT, SALMO GAIIRDNERI AND DAPHNIA PULEX not available, not applicable J. Environ. SCI. Health, B16 (4), pp. 493-509 GLP/GEP: no Published: yes Submitted in: KMA 8.2.1 3683926	no	no	not protected	-	Y KIIM 8.3

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KMA 8.2.2	Burges, H.D., Croizier, G., Huber, J.	1980	A REVIEW OF SAFETY TESTS ON BACULOVIRUSES not available, not applicable Entomophaga 25 (4), 329-339 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683611	no	no	not protected	-	Y KIIM 8.3
KMA 8.2.2	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD INTEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agriculture, 1584, 475-479 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683801	no	no	not protected	-	Y KIIM 8.3
KMA 8.3/01	Mommaerts, V., Serk, G., Hoffmann, L., Smaghe, G.	2009	A LABORATORY EVALUATION TO DETERMINE THE COMPATIBILITY OF MICROBIOLOGICAL CONTROL AGENTS WITH THE POLLINATOR BOMBUS TERRESTRIS not available, not applicable Pest Management Science, 65, 949-955 GLP/GEP: no Published: yes 3306491	no	no	not protected	-	N
KMA 8.3	Gröner, A., Huber, J., Krieg, A., Pinsdori, W.	1978	BIENENPRÜFUNG VON ZWEI BACULOVIRUS PRÄPARATEN Nachrichtenbl. Deut. Flanzenschutzd., 30, 3, 39-41. GLP/GEP: no/no Published: yes 2019293	no	no	not protected	-	Y KIIM 8.7

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KMA 8.3	Knox, D.A	1970	TESTS OF CERTAIN INSECT VIRUSES ON COLONIES OF HONEYBEES. J. invertebr. Pathol. 16, 152 GLP/GEP: no/no Published: yes 3689576	no	no	not protected	-	Y KIIM 8.7
KMA 8.3	Cantwell G.E., Knox D.A., Lehnert T., Michael A.S.	1966	MORTALITY OF THE HONEY BEE, APIS MELIFERA, IN COLONIES TREATED WITH CERTAIN BIOLOGICAL INSECTICIDES J Invertebr Pathol. 8, 228-233 GLP/GEP: no/no Published: yes	no	no	not protected	-	N
KMA 8.3	Copping, L.G.	2001	CYDIA POMONELLA GRANULOSIS VIRUS not available, not applicable The BioPesticide Manual, pp. 60-61 GLP/GEP: no Published: yes 1300650 / BIE2006-65	no	no	not protected	-	Y KIIM 8.7
KMA 8.3	Gröner, A.	1990	SAFETY TO NONTARGET INVERTEBRATES OF BACULOVIRUSES not available, not applicable Safety of microbial insecticides, Laird M., Lacey L.A., Davidson E.W., Chapter 10, 135-147 GLP/GEP: no Published: yes 1300651 / BIE2006-121	no	no	not protected	-	Y KIIM 8.7

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KMP 10.3	Schmitzer, S.	2006	EFFECTS OF CARPOVIRUSINE (ACUTE CONTACT AND ORAL) ON HONEY BEES (APIS MELLIFERA L.) IN THE LABORATORY Arysta LifeScience S.A.S., 26194035 Institut für Analytik u. Umweltchemie GmbH, Germany GLP: yes Published: no 3689722	no	no	not protected	ALS	Y KIIIM 10.3
KMP 10.3	Colli, M.	2005	SIDE EFFECTS (ACUTE ORAL AND CONTACT TOXICITY) OF VIRGO ON THE HONEY BEE, APIS MELLIFERA L., IN LABORATORY (LIMIT TEST). Sipcam S.p.A., BT008/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300695 / BIE2006-68	no	no	not protected	SIP	Y KIII M 10.3
KMP 10.3	Kling, A.	2002	ASSESSMENT OF SIDE EFFECTS OF GRANUPOM TO THE HONEY BEE, APIS MELLIFERA L. IN THE LABORATORY Andermatt Biocontrol GmbH / Probis GmbH, 20011323/01-BLEU ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914013	no	no	not protected	PKA	Y KIII M 10.3

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KMA 8.4	Copping, L.G.	2001	CYDIA POMONELLA GRANULOSIS VIRUS not available, not applicable The BioPesticide Manual, pp. 60-61 GLP/GEP: no Published: yes Submitted in: KMA 8.2.2 3683590	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Ignoffo, C.M.	1975	EVALUATION OF IN VIVO SPECIFICITY OF INSECT VIRUSES not available, not applicable In: Baculoviruses for insect pest control: Safety considerations ... Publisher: American Society for Microbiology, 52-57 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683601	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Burges, H.D., Croizier, G., Huber, J.	1980	A REVIEW OF SAFETY TESTS ON BACULOVIRUSES not available, not applicable Entomophaga 25 (4), 329-339 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683612	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Huber, J.	1978	ABOUT THE HOST SPECTRUM OF THE CODLING MOTH GRANULOSIS VIRUS not available, not applicable Safety aspects of baculoviruses as Biological Insecticides, 75-85 GLP/GEP: no Published: yes 3683575	no	no	not protected	-	Y KIIM 8.8

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KMA 8.4	Jaques, R.P., Laing, J.E., MacLellan, C.R., Proverbs, M.D., Sanford, K.H., Trottier, R.	1981	APPLE ORCHARD TESTS ON THE EFFICACY OF THE GRANULOSIS VIRUS OF THE CODLING MOTH, LASPEYRESIA POMONELLA [LEP.: OLETHREUTIDAE] not available, not applicable Entomophaga 26 (2), pp. 111-118 GLP/GEP: no Published: yes 3683576	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Dickler, E.	1986	EINFLUSS VON BEHANDLUNGEN MIT APFEL- WICKLER-GRANULOSEVIRUS (CPGV) UND BREITENWIRKSAMEN CHEMISCHEN INSEKTI- ZIDEN AUF PARASITEN DES APFELWICKLERS UND PARASITEN VON SCHALENWICKLERAR- TEN not available, not applicable Biologische Bundesanstalt, Inst. f. Pflanzenschutz im Obstbau, Dossenheim, 90-97 GLP/GEP: no Published: yes 3683578	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Huber, J.	1995	PRELIMINARY TESTS FOR USE OF THE GRAN- ULOSIS VIRUS OF THE CODLING MOTH FOR CONTROL OF THE EUROPEAN PINE SHOOT MOTH not available, not applicable Mod Meth z Bek von Schadinsekten, 2, 59-64 GLP/GEP: no Published: yes 3683579	no	no	not protected	-	Y KIIM 8.8

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KMA 8.4	Lewis, F.B., Podgwaite, J.D.	1981	THE GYPSY MOTH: RESEARCH TOWARD INTEGRATED PEST MANAGEMENT - SAFETY EVALUATIONS not available, not applicable Technical Bulletin, U.S. Department of Agriculture, 1584, 475-479 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683803	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Xuebao, W.	1982	SAFETY TESTS OF A GV INSECTICIDE AGAINST CABBAGE BUTTERFLY PIERIS RAPAE LARVAE not available, not applicable RAE Serie A, 70 (4), 2368 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683906	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Gröner, A.	1986	SPECIFICITY AND SAFETY OF BACULOVIRUSES not available, not applicable The Biology of Baculoviruses, Volume I, Biological Properties and Molecular Biologie, Chapter 9, 177-201 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683915	no	no	not protected	-	Y KIIM 8.8

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KMA 8.4	Gröner, A.	1990	SAFETY TO NONTARGET INVERTEBRATES OF BACULOVIRUSES not available, not applicable Safety of microbial insecticides, Laird M., Lacey L.A., Davidson E.W., Chapter 10, 135-147 GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683809	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Glen, D.M., Wiltshire, C.W., Milson, N.F., Brain, P.	1984	CODLING MOTH GRANULOSIS VIRUS: EFFECTS OF ITS USE ON SOME OTHER ORCHARD ARTHROPODS not available, not applicable Annals of Applied Biology, 104, 99-106 GLP/GEP: no Published: yes 3689585	no	no	not protected	-	Y KIIM 8.8
KMA 8.4	Neuffer, G.	1986	ZUR FRAGE VON NEBENWIRKUNGEN VON GRANULOSE-VIRUS UND INSEKAR AUF DIE ARTHROPODENFAUNE IN APFELANLAGEN SÜDWESTDEUTSCHLANDS not available, not applicable Symposium integrated plant protection in orchards, 118-123 GLP/GEP: no Published: yes 2390233	no	no	not protected	-	Y KIIM 8.8

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KMA 8.4	Fritsch, E., Huber, J., Backhaus, H.	1990	CPGV AS A TOOL IN THE RISK ASSESSMENT OF GENETICALLY ENGINEERED BACULOVIRUSES not available, not applicable Vth International Colloque on Invertebrate Pathology and Microbial Control, Adelaide, Australia, 439-443 GLP/GEP: no Published: yes 2390234	no	no	not protected	-	Y KIIM 2.4
KMA 8.4	Steineke, S.B.	2004	POPULATIONSDYNAMIK DES CYDIA POMONELLA GRANULOVIRUS not available, not stated Johannes Gutenberg-Universität, Fachbereich Biologie, Mainz GLP/GEP: no Published: no 2390213	no	no	not protected		Y KIIM 7.1
KMA 8.4/01	Simon, S., De-france, H., Sau-phanor, B.	2007	EFFECT OF CODLING MOTH MANAGEMENT ON ORCHARD ARTHROPODS not available, not applicable Agriculture, Ecosystems and Environment, 122, 340-348 GLP/GEP: no Published: yes 3306492	no	no	not protected	-	N

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KMA 8.7	Lautenschlager, R.A., Rothenbacher, H., Podgwaite, J.D.	1978	RESPONSE OF SMALL MAMMALS TO AERIAL APPLICATIONS OF THE NUCLEOPOLYHEDROSIS VIRUS OF THE GYPSY MOTH, LYMANTRIA DISPAR not available, not applicable Environ Entomol, 7, 676-683 GLP/GEP: no Published: yes 3703351	no	no	not protected	-	Y KIIM 8.11
KMA 8.7	Martignoni, M.E.	1978	THE DOUGLAS-FIR TUSsock MOTH: A SYNTHESIS not available, not applicable Forest Ser. Tech. Bulletin 1585. U.S. Dep. of Agriculture, ed. by: Brookes, M.H., Stark, R.W., Campell, R.W. GLP/GEP: no Published: yes Submitted in: KMA 8.1 3683606	no	no	not protected	-	Y KIIM 8.11
KMA 8.7	OECD	2002	CONSENSUS DOCUMENT ON INFORMATION USED IN THE ASSESSMENT OF ENVIRONMENTAL APPLICATIONS INVOLVING BACULOVIRUS not available, not applicable ENV/JM/MONO, 1, 1-90 GLP/GEP: no Published: yes 3683046	no	no	not protected	-	Y KIIM 8.11

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KMA 8.7	Lightner, D.V., Proctor, R.R., Sparks, A.K., Adams, J.R., Heimpel, A.M.	1973	TESTING PENAEID SHRIMP FOR SUSCEPTIBILITY TO AN INSECT NUCLEAR POLYHEDROSIS VIRUS not available, not applicable Environm. Entomol., 2, p. 611-613 GLP/GEP: no Published: yes 3683933	no	no	not protected	-	Y KIIM 8.11



A9.2 Product 1 Carpovirusine

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KMA 8/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - EFFECTS ON NON-TARGET ORGANISMS Arysta LifeScience S.A.S., not applicable not available GLP/GEP: no Published: no 3306490	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N
KMA 8.3	Mommaerts, V., Sterk, G., Hoffmann, L., Smaghe, G.	2009	A LABORATORY EVALUATION TO DETERMINE THE COMPATIBILITY OF MICROBIOLOGICAL CONTROL AGENTS WITH THE POLLINATOR BOMBUS TERRESTRIS 59632 PEST MANAGEMENT SCIENCE N/N J 3306491	no	N		LIT	
KMP 10.3	Schmitzer, S.	2006	EFFECTS OF CARPOVIRUSINE (ACUTE CONTACT AND ORAL) ON HONEY BEES (APIS MELIFERA L.) IN THE LABORATORY Arysta LifeScience S.A.S., 26194035 Institut für Analytik u. Umweltchemie GmbH, Germany GLP: yes Published: no 3689722	no	no	not protected	ALS	Y KIIIM 10.3

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KMP 10.3	Colli, M.	2005	SIDE EFFECTS (ACUTE ORAL AND CONTACT TOXICITY) OF VIRGO ON THE HONEY BEE, APIS MELLIFERA L., IN LABORATORY (LIMIT TEST). Sipcam S.p.A., BT008/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300695 / BIE2006-68	no	no	not protected	SIP	Y KIII M 10.3
KMP 10.3	Kling, A.	2002	Assessment of side effects of granupom to the honey bee, <i>Apis mellifera</i> L. in the laboratory Andermatt Biocontrol GmbH / Probis GmbH, 20011323/01-BLEU ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914013	no	no	not protected	PKA	Y KIII M 10.3
KMP 10.1		1993	CARPOVIRUSINE: AN AVIAN ORAL PATHOGENICITY AND TOXICITY STUDY IN THE NORTHERN BOBWHITE Arysta LifeScience S.A.S., 347-105  GLP: yes Published: no 3689620	yes	no	not protected	ALS	Y KIIIM 10.1

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KMP 10.2	████████	1994a	TEST TO EVALUATE ACUTE TOXICITY (96 HOURS) IN FRESHWATER FISH (BRACHYDAN-IO RERIO) USING A STATIC METHOD Arysta LifeScience S.A.S., E150 ██████████ GLP: yes Published: no 3689633	yes	no	not protected	ALS	Y KIHIM 10.2
KMP 10.2	████████	1994b	TEST TO EVALUATE ACUTE TOXICITY (48 HOURS) IN DAPHNIA Arysta LifeScience S.A.S., E151 ██████████ GLP: yes Published: no 3689641	no	no	not protected	ALS	Y KIHIM 10.2
KMP 10.2	Pawlowski, S., Wydra, V., Vinken, R.	2007	TOXICITY OF CARPOVIRUSINE TO PSEUDO-KIRCHNERIELLA SUBCAPITANA IN AN ALGAL GROWTH INHIBITION TEST FINAL REPORT Arysta LifeScience S.A.S., 26191210 Institut für Biologische Analytik, Rossdorf Germany GLP: yes Published: no 3689706	no	no	not protected	ALS	Y KIHIM 10.2
KMP 10.2	Jehle, J., Matt-Schmid, A.	2006	ANALYTICAL PHASE REPORT: TOXICITY OF CARPOVIRUSINE TO PSEUDOKIRCHNERIELLA SUBCAPITATA IN AN ALGAL GROWTH INHIBITION TEST Arysta LifeScience S.A.S., ARY05, 26191210 Dienstleistungszentrum Ländlicher Raum, Neustadt an der Weinstraße GLP: yes Published: no 3689555	no	no	not protected	ALS	Y KIHIM 10.2

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KMP 10.4	Hoxter, K.A., Porch, J.R., Krueger, H.O.	1999a	CARPOVIRUSINE: A DIETARY PATHOGENICITY AND TOXICITY STUDY WITH THE LADYBIRD BEETLE (HIPPODAMIA CONVERGENS) Arysta LifeScience S.A.S., 347-107C Wildlife International Ltd., Easton, MD, United States GLP: yes Published: no 2019794	no	no	not protected	ALS	Y KIIIM 10.4
KMP 10.4	Hoxter, K.A., Porch, J.R., Krueger, H.O.	1999b	CARPOVIRUSINE: A DIETARY PATHOGENICITY AND TOXICITY STUDY WITH GREEN LACE- WING LARVAE (CHRYSOPELTA CARNEA) Arysta LifeScience S.A.S., 347-108 Wildlife International Ltd., Easton, MD, United States GLP: yes Published: no 3689731	no	no	not protected	ALS	Y KIIIM 10.4
KMP 10.4	Moll, M.	2006	EFFECTS OF CARPOVIRUSINE ON THE PARA- SITOID APHIDIUS RHOPALOSIPHI, EX- TENDEND LABORATORY STUDY - DOSE RE- SPONSE TEST- Arysta LifeScience S.A.S., 26192002 Institut für Biologische Analytik, Rossdorf Germany GLP: yes Published: no 3689735	no	no	not protected	ALS	Y KIIIM 10.4

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KMP 10.4	Rosenkranz, B.	2006	EFFECTS OF CARPOVIRUSINE ON THE PREDATORY MITE TYPHLODROMUS PYRI, EXTENDED LABORATORY STUDY -DOSE RESPONSE TEST- Arysta LifeScience S.A.S., 26193062 Institut für Biologische Analytik, Rossdorf Germany GLP: yes Published: no 3689736	no	no	not protected	ALS	Y KIIIM 10.4
KMP 10.5	Benech, B.	1996	EVALUATION OF THE ACUTE TOXICITY OF CARPOVIRUSINE TO EARTHWORMS (EISENIA FETIDA) USING ARTIFICIAL SOIL SUBSTRATE Arysta LifeScience S.A.S., 96-64-003-BB Envirotests, S. A. Pau, France GLP: yes Published: no 3689740	no	no	not protected	ALS	Y KIIIM 10.5
KMP 10.5	Lührs, U.	2007a	ACUTE TOXICITY (14 DAYS) OF CARPOVIRUSINE TO THE EARTHWORM EISENIA FETIDA IN ARTIFICIAL SOIL Arysta LifeScience S.A.S., 26195021 Institut für Biologische Analytik, Rossdorf Germany GLP: yes Published: no 3689741	no	no	not protected	ALS	Y KIIIM 10.5
KMP 10.5	Lührs, U.	2007b	EFFECTS OF CARPOVIRUSINE ON REPRODUCTION AND GROWTH OF EARTHWORMS EISENIA FETIDA IN ARTIFICIAL SOIL Arysta LifeScience S.A.S., 26196022 Institut für Biologische Analytik, Rossdorf Germany GLP: yes Published: no 3689742	no	no	not protected	ALS	Y KIIIM 10.5

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KMP 10.6	Servajean, E.	2001	LABORATORY ASSESSMENT OF THE SIDE-EFFECTS OF CARPOVIRUSINE ON THE SOIL MICRO-ORGANISMS Arysta LifeScience S.A.S., 00-64-004-ES Envirotests, S. A. Pau, France GLP: yes Published: no 3689622	no	no	not protected	ALS	Y KIIIM 10.6

A9.3 Product 2 Madex

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 8/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - EFFECTS ON NON-TARGET ORGANISMS Arysta LifeScience S.A.S., not applicable not available GLP/GEP: no Published: no 3306490	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N

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KMA 8.3	Mommaerts, V., Serk, G., Hoffmann, L., Smaghe, G.	2009	A LABORATORY EVALUATION TO DETERMINE THE COMPATIBILITY OF MICROBIOLOGICAL CONTROL AGENTS WITH THE POLLINATOR BOMBUS TERRESTRIS 59632 PEST MANAGEMENT SCIENCE GLP/GEP: NO PUBLISHED: NO 3306491	no	no		LIT	
KMP 10.2	██████████	1998a	ACUTE TOXICITY TESTING OF GRANULOSEVIRUS CPGV SC IN RAINBOW TROUT (ONCORHYNCHUS MYKISS) (TELEOSTEI, SALMONIDAE) Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-AAOm ██ ██████████ GLP: yes Published: no 3687395	yes	no	not protected	PKA	Y KIHIM 10.2
KMP 10.2	██████████	1998b	ACUTE TOXICITY TESTING OF GRANULOSEVIRUS CPGV SC ON DAPHNIA MAGNA USING THE 48 H ACUTE IMMOBILISATION TEST Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-AADm ██ ██████████ GLP: yes Published: no 3687396	no	no	not protected	PKA	Y KIHIM 10.2

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KMP 10.2	Dengler, D.	1998	TESTING OF TOXIC EFFECTS OF GRANULO-SEVIRUS CPGV SC ON THE SINGLE CELL GREEN ALGA SCENEDESMUS SUBSPICATUS Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-AASs ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 3687397	no	no	not protected	PKA	Y KIIIM 10.2
KMP 10.2	Dengler, D.	2002	ASSESSMENT OF TOXIC EFFECTS OF GRANUPOM ON AQUATIC PLANTS USING THE DUCKWEED LEMNA GIBBA Andermatt Biocontrol GmbH / Probis GmbH, 20011323/01-AALg ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 3687399	no	no	not protected	PKA	Y KIIIM 10.2
KMP 10.3	Schmitzer, S.	2006	EFFECTS OF CARPOVIRUSINE (ACUTE CONTACT AND ORAL) ON HONEY BEES (APIS MEL-LIFERA L.) IN THE LABORATORY Arysta LifeScience S.A.S., 26194035 Institut für Analytik u. Umweltchemie GmbH, Germany GLP: yes Published: no 3689722	no	no	not protected	ALS	Y KIIIM 10.3

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KMP 10.3	Colli, M.	2005	SIDE EFFECTS (ACUTE ORAL AND CONTACT TOXICITY) OF VIRGO ON THE HONEY BEE, APIS MELLIFERA L., IN LABORATORY (LIMIT TEST). Sipcam S.p.A., BT008/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300695 / BIE2006-68	no	no	not protected	SIP	Y KIII M 10.3
KMP 10.3	Kling, A.	2002	ASSESSMENT OF SIDE EFFECTS OF GRANUPOM TO THE HONEY BEE, APIS MELLIFERA L. IN THE LABORATORY Andermatt Biocontrol GmbH / Probis GmbH, 20011323/01-BLEU ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914013	no	no	not protected	PKA	Y KIIIM 10.3
KMP 10.4	Kühner, C.	2001	GRANULOSEVIRUS CPGV SC: ACUTE TOXICITY TO THE APHID PARASITOID, APHIDIUS RHOPALOSIPHI (HYMENOPTERA, BRACONIDAE) IN THE LABORATORY Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-NLAp ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914014	no	no	not protected	PKA	Y KIIIM 10.4

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KMP 10.4	Kühner, C.	1998	GRANULOSEVIRUS CPGV SC: ACUTE TOXICITY TO THE PREDATORY MITE, TYPHLODROMUS PYRI SCHEUTEN (ACARI, PHYTOSEIIDAE) IN THE LABORATORY Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-NLTp ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914015	no	no	not protected	PKA	Y KIIIM 10.4
KMP 10.4	Kühner, C.	1997	GRANULOSEVIRUS CPGV SC: ACUTE TOXICITY TO THE GROUND BEETLE, POECILUS CURVEUS L. (COLEOPTERA, CARABIDAE) IN THE LABORATORY Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-NLPc ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914016	no	no	not protected	PKA	Y KIIIM 10.4
KMP 10.5	Wachter, S.	1998a	ACUTE TOXICITY OF CPGV SC ON EARTH-WORMS, EISENIA FOETIDA USING AN ARTIFICIAL SOIL TEST Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-NLEf ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 3687407	no	no	not protected	PKA	Y KIIIM 10.5

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KMP 10.6	Wachter, S.	1998b	ASSESSMENT OF THE SIDE EFFECTS OF CPGV SC OF THE ACTIVITY OF THE SOIL MICRO- FLORA Andermatt Biocontrol GmbH / Probis GmbH, 96272/01-ABMF ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 3687408	no	no	not protected	PKA	Y KIHIM 10.6

A9.4 Product 3 Madex Twin

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 8/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - EFFECTS ON NON-TARGET ORGANISMS Arysta LifeScience S.A.S., not applicable not available GLP/GEP: no Published: no 3306490	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N

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KMA 8.3	Mommaerts, V., Serk, G., Hoffmann, L., Smaghe, G.	2009	A LABORATORY EVALUATION TO DETERMINE THE COMPATIBILITY OF MICROBIOLOGICAL CONTROL AGENTS WITH THE POLLINATOR BOMBUS TERRESTRIS 59632 Pest Management Science N/N J 3306491	no	no		LIT	
KMP 10.3	Schmitzer, S.	2006	EFFECTS OF CARPOVIRUSINE (ACUTE CONTACT AND ORAL) ON HONEY BEES (APIS MELLIFERA L.) IN THE LABORATORY Arysta LifeScience S.A.S., 26194035 Institut für Analytik u. Umweltchemie GmbH, Germany GLP: yes Published: no 3689722	no	no	not protected	ALS	Y KIIIM 10.3
KMP 10.3	Colli, M.	2005	SIDE EFFECTS (ACUTE ORAL AND CONTACT TOXICITY) OF VIRGO ON THE HONEY BEE, APIS MELLIFERA L., IN LABORATORY (LIMIT TEST). Sipcam S.p.A., BT008/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300695 / BIE2006-68	no	no	not protected	SIP	Y KIII M 10.3

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KMP 10.3	Kling, A.	2002	Assessment of side effects of granupom to the honey bee, <i>Apis mellifera</i> L. in the laboratory Andermatt Biocontrol GmbH / Probis GmbH, 20011323/01-BLEU ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914013	no	open	no	not protected	PKA

A9.5 Product 4 Virgo

Data point	Author(s)	Year	Title Owner, Report No. Source (where different from owner) GLP or GEP status Published or not BVL registration number	Vertebrate study Y/N	Data protection claimed Y/N	Justification if data protection is claimed	Owner	Previously submitted Y/N* If Y => old data point
KMA 8/01	Anonymous	2016	LITERATURE REVIEW REPORT ON CYDIA POMONELLA GRANULOVIRUS - EFFECTS ON NON-TARGET ORGANISMS Arysta LifeScience S.A.S., not applicable not available GLP/GEP: no Published: no 3306490	no	yes	New data for active ingredient, not previously submitted nor evaluated	ALS	N

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KMA 8.3	Mommaerts, V., Serk, G., Hoffmann, L., Smaghe, G.	2009	A LABORATORY EVALUATION TO DETERMINE THE COMPATIBILITY OF MICROBIOLOGICAL CONTROL AGENTS WITH THE POLLINATOR BOMBUS TERRESTRIS 59632 Pest management science N/N J 3306491	no	no		LIT	
KMP 10.2	██████████	2005	ACUTE TOXICITY TESTING OF VIRGO IN RAINBOW TROUT (ONCORHYNCHUS MYKISS) (TELEOSTEI, SALMONIDAE) Sipcam S.p.A., 20051166/01-AAOm ██ GLP: yes Published: no 1300694	yes	no	not protected	SIP	Y KIIIM 10.2
KMP 10.2	Fifi, A.P.	2005a	EVALUATION OF VIRGO (CPGV 2X1013 GV/LT, SC) TOXIC EFFECTS ON DAPHNIA MAGNA USING TEST OF ACUTE IMMOBILISATION Sipcam S.p.A., BT007/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300693	no	no	not protected	SIP	Y KIIIM 10.2

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KMP 10.2	Fifi, A.P.	2005b	DETERMINATION OF VIRGO (CPGV 2X1013 GV/LT, SC) TOXIC EFFECTS ON THE ALGAL GROWTH (PSEUDOKIRCHNERIELLA SUBCAPITATA) Sipcam S.p.A., BT006/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300692	no	no	not protected	SIP	Y KIIIM 10.2
KMP 10.2	Fifi, A.P.	2005c	TOXIC EFFECTS OF VIRGO (CPGV 2X1013 GV/LT, SC) ON THE DUCKWEED GROWTH (LEMNA MINOR). Sipcam S.p.A., BT012/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300691	no	no	not protected	SIP	Y KIIIM 10.2
KMP 10.3	Schmitzer, S.	2006	EFFECTS OF CARPOVIRUSINE (ACUTE CONTACT AND ORAL) ON HONEY BEES (APIS MELIFERA L.) IN THE LABORATORY Arysta LifeScience S.A.S., 26194035 Institut für Analytik u. Umweltchemie GmbH, Germany GLP: yes Published: no 3689722	no	no	not protected	ALS	Y KIIIM 10.3

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KMP 10.3	Colli, M.	2005	SIDE EFFECTS (ACUTE ORAL AND CONTACT TOXICITY) OF VIRGO ON THE HONEY BEE, APIS MELLIFERA L., IN LABORATORY (LIMIT TEST). Sipcam S.p.A., BT008/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300695 / BIE2006-68	no	no	not protected	SIP	Y KIII M 10.3
KMP 10.3	Kling, A.	2002	ASSESSMENT OF SIDE EFFECTS OF GRANUPOM TO THE HONEY BEE, APIS MELLIFERA L. IN THE LABORATORY Andermatt Biocontrol GmbH / Probis GmbH, 20011323/01-BLEU ArGe GAB Biotech/IFU, Niefern-Öschelbronn, Germany GLP: yes Published: no 1914013	no	no	not protected	PKA	Y KIII M 10.3
KMP 10.4	Colli, M.	2005b	EFFECTS OF VIRGO ON THE APHID PARASITOID, APHIDIUS RHOPALOSIPHI DE STEFANI PEREZ (HYMENOPTERA, BRACONIDAE IN LABORATORY) Sipcam S.p.A., BT005/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300704	no	no	not protected	SIP	Y KIIIM 10.4

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KMP 10.4	Colli, M.	2005c	EFFECTS OF VIRGO ON THE PREDATORY MITE, TYPHLODROMUS PYRI SCHEUTEN (ACARI, PHYTOSEIIDAE) IN THE LABORATORY (LIMIT TEST) Sipcam S.p.A., BT010/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300703	no	no	not protected	SIP	Y KIIIM 10.4
KMP 10.5	Colli, M.	2005d	ACUTE TOXICITY OF VIRGO ON EARTH-WORMS, EISENIA FOETIDA, USING AN ARTIFICIAL SOIL (LIMIT TEST) Sipcam S.p.A., BT013/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300705	no	no	not protected	SIP	Y KIIIM 10.5
KMP 10.6	Ragni, A.	2005a	ASSESSMENT OF THE EFFECTS OF VIRGO ON SOIL RESPIRATION AND NITRIFICATION Sipcam S.p.A., BT009/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300710	no	no	not protected	SIP	Y KIIIM 10.6
KMP 10.6	Ragni, A.	2005b	VALIDATION OF THE NITRATES EXTRACTING METHOD FROM AGRICULTURAL SOIL MATRIX USING IC TO QUANTIFY THEIR CONTENT Sipcam S.p.A., BT002/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300709	no	no	not protected	SIP	Y KIIIM 10.6

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KMP 10.6	Dottorini, F.	2005a	ASSESSMENT OF THE EFFECTS OF VIRGO (CPGV 2 X 1013 GRANULES/LT, SC) ON SOIL RESPIRATION AND NITRIFICATION Sipcam S.p.A., BT028/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300708	no	no	not protected	SIP	Y KIIIM 10.6
KMP 10.6	Dottorini, F.	2005b	ASSESSMENT OF THE INHIBITION EFFECTS OF DINOSEB ACETATE ON SOIL RESPIRATION AND NITRIFICATION. Sipcam S.p.A., BT027/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300707	no	no	not protected	SIP	Y KIIIM 10.6
KMP 10.6	Dottorini, F.	2005c	NITRATES EXTRACTING METHOD FROM AGRICULTURAL SOIL MATRIX USING IC (IONIC CHROMATOGRAPHY) TO QUANTIFY THEIR CONTENT - VALIDATION Sipcam S.p.A., BT024/05 Biotechnologie BT Srl, Fraz. Pantalla, Italy GLP: yes Published: no 1300706	no	no	not protected	SIP	Y KIIIM 10.6