



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
Washington, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX (Form 8570-35)

Date: November 8, 2009	EPA Reg. No./File Symbol: 524-594	Page 1 of 8	
Applicant's/Registrant's Name & Address: Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167		Product: MON 87701	
Ingredient: <i>Bacillus thuringiensis</i> Cry1Ac Protein and the Genetic Material (Vector PV-GMIR9) Necessary for its Production in MON 87701 (OECD Unique Identifier: MON-87701-2)	MRID Number	Status	
Guideline Reference Number	Study Name	Submitter	
		Note	
885.1100	Administrative Materials for an Application to Amend Section 3 of the Insecticide Registration Act for the Incorporated Protein, <i>Bacillus thuringiensis</i> Cry1Ac Protein and the Genetic Material (Vector PV-GMIR9) Necessary for its Production in MON 87701 (OECD Unique Identifier: MON-87701-2)	Monsanto Company OWN	Administrative
885.1100	Administrative Materials for an Application for a Section 3 Registration of the Plant-Incorporated Protein, <i>Bacillus thuringiensis</i> Cry1Ac Protein and the Genetic Material (Vector PV-GMIR9) Necessary for its Production in MON 87701 (OECD Unique Identifier: MON-87701-2)	Monsanto Company AG OWN	Administrative
N/A	2009. Human Health and Environmental Assessment of the Plant-Incorporated Protein, <i>Bacillus thuringiensis</i> Cry1Ac Protein Produced in Soybean MON 87701	Monsanto Company OWN	Product Characterization
885.1100	2009. Amended Report for MSL0022176: Molecular Analysis of Insect-Protected Soybean MON 87701. Monsanto Technical Report MSL0022327	Monsanto Company OWN	Product Characterization
885.1100	2008. Assessment of the Cry1Ac Protein Levels in Soybean Tissues from MON 87701 Produced in U.S. Field Trials During 2007. Monsanto Technical Report MSL0021531	Monsanto Company OWN	Product Characterization
Signature: [Redacted]	Name and Title: [Redacted] Regulatory Affairs Manager	Date: November 8, 2010	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
885.1100	2008. Characterization of the CryI Ac Protein Produced from the Harvested Seed of MON 87701 Soybean and Comparison of the Physicochemical and Functional Properties of the MON 87701 Produced and Field-Produced CryI Ac Proteins. Monsanto Technical Report MSL002146	47841704	Monsanto Company	OWN	Product Characterization
885.1100	2008. Functional Equivalence of E. coli-produced Full Length CryI Ac Protein and the CryI Ac Trypsin Core Protein. Monsanto Technical Report MSL0021404	47841705	Monsanto Company	OWN	Product Characterization
870.1100	2009. An Acute Toxicity Study of CryI Ac Protein Administered by the Oral (Gavage) Route to Mice. Monsanto Study Number CRO-2007-325	47841707	Monsanto Company	OWN	Human Health Assessment
885.1100	2008. Assessment of <i>In Vitro</i> Digestibility of the CryI Ac Protein in Simulated Gastric and Simulated Intestinal Fluids. Monsanto Technical Report MSL0021376	47841708	Monsanto Company	OWN	Product Characterization
885.1100	2008. Bioinformatics Evaluation of the CryI Ac Protein Present in MON 87701 Soybean Utilizing the AD8, TOXIN6, and PROTEIN Databases. Monsanto Technical Report MSL0021658	47841709	Monsanto Company	OWN	Human Health Assessment
Signature			Name and Title, [Redacted] Regulatory Affairs Manager	Date	September 8, 2010

Date: November 8, 2010

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Applicant's/Registrant's Name & Address: Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167

Product: MON 87701

Ingredient: *Bacillus thuringiensis* CryI Ac Protein and the Genetic Material (Vector and Plasmid) Necessary for its Production in MON 87701 (OECD Unique Identifier: MON-87701-2)

Guideline Reference Number

Guideline Study Name

MRID Number

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Date: November 8, 2010	EPA Reg. No./File Symbol: 524-594	Page 4 of 8			
Applicant/Registrant's Name & Address: Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63107		Product: MON 87701			
Ingredient: Bacillus thuringiensis CryI Ac Protein, and the Genetic Material (Vector PVZ-AMIR) Necessary for its Production in MON 87701 (OECD Unique Identifier: MON-87701-2)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
885.4340	2009 Evaluation of Potential Diet Effects of CryI Ac Protein on the Parasitic Wasp, <i>Pseudaletia foveolatus</i> (Hymenoptera: Eulophidae), Monsanto Technical Report MSL0021716	45841716	Monsanto Company	OWN	Environmental Assessment
885.6200	2009 Evaluation of the potential effects of the CryI Ac Protein on the Earthworm <i>Eisenia fetida</i> using an artificial soil substrate. Monsanto Technical Report MSL001716	47841717	Monsanto Company	OWN	Environmental Assessment
885.5200	2009 Acrobasis Degradation of the Purified CryI Ac Protein. Monsanto Technical Report MSL0020174	47841718	Monsanto Company	OWN	Environmental Assessment
N/A	2006 Endangered Species Risk Assessment for Insect-Protected Soybean MON 87701. Monsanto Technical Report MSL0022082	47841719	Monsanto Company	OWN	Environmental Assessment
885.1100	2006. Data in Support of an Application for Experimental Use Permit for Insect-Protected Soybean MON 87701, Which Produces a Protein that Provides Control of Lepidopteran Pests: Protein Expression	469461-01	Monsanto Company	OWN	Product Characterization
885.1100	2006. Data in Support of an Application for Experimental Use Permit for Insect-Protected Soybean MON 87701: Qualitative Detection Method for the CryI Ac Protein in Soybean Leaf and Seed	469461-02	Monsanto Company	OWN	Product Characterization
Signature			Name and Title Regulatory Affairs Manager	Date November 8, 2010	

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Date: November 8, 2010	EPA Reg. No./File Symbol: 524-594	Page 5 of 8
Applicant's Registrant's Name & Address: Monsanto Company, 800 N. Lindbergh Blvd, St. Louis, MO 63167	Product: MON 87701	
Ingredient: <i>Bacillus thuringiensis</i> CryIAc Protein and the Genetic Material (Vector PV-GM10) Necessary for its Production in MON 87701 (OECD Unique Identifier: MON-87701-2)	Submitter	Status
Guideline Reference Number	MRID Number	Note
885.1100	431452-001	OWN Product Characterization
N/A	431452-00	OWN Tolerance Exemption
885.1100	431452-02	OWN Product Characterization
885.1100	431452-04	OWN Product Characterization
Signature: [Redacted]	Name and Title: [Redacted] Regulatory Affairs Manager	Date: November 8, 2010 Publishing Regime: Agency Internal Use Copy

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Date: November 8, 2010		EPA Reg. No./File Symbol: 524-594		Page 6 of 8	
Applicant/Registrant's Name & Address: Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63107		Product: MON 87701			
Ingredient: Bacillus thuringiensis var. kurstaki (B.t.t.k. HD-73) in sucrose and honey solutions under non-refrigerated temperature conditions. Monsanto number 92-01-36-15 and 92-01-427-718, MON-13288		MIRID Number: 431452-05		Status: OWN	
Guideline Reference Number		Submitter: Monsanto Company		Note	
885.4380	1993. Evaluation of the dietary effect(s) of purified B.t.t.k. endotoxin proteins on honey bee larvae. Monsanto number CAR-181-92-01-36-10, and 92-01-427-709	431452-05	Monsanto Company	OWN	Environmental Assessment
885.4380	1993. Evaluation of the dietary effect(s) of purified B.t.t.k. endotoxin proteins on honey bee adults. Monsanto number CAR-181-92-01-36-10, and 92-01-427-708	431452-06	Monsanto Company	OWN	Environmental Assessment
885.4380	1993. B.t.t.k. HD-73 protein: A dietary toxicity study with parasitic hymenoptera (<i>Nasonia vitripennis</i>). Lab project number WIL-139-369 and WL-93-234	431452-07	Monsanto Company	OWN	Environmental Assessment
885.4340	1993. B.t.t.k. HD-73 protein: A dietary toxicity study with ladybird beetles (<i>Hippodamia convergens</i>). Lab project number WIL-139-370, WL-93-232, and 92-01-36-25	431452-09	Monsanto Company	OWN	Environmental Assessment
Signature			Name and Title: [Redacted] Regulatory Affairs Manager	Date: November 8, 2010	

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Date: November 8, 2010		EPA Reg. No./File Symbol: 524-594	Page 7 of 8
Applicant's (Registrant's) Name & Address: Monsanto Company, 800 N. Lindbergh Blvd., St. Louis, MO 63167		Product: MON 87701	
Ingredient: <i>Bacillus thuringiensis</i> CryIAC-Delta and the Genetic Material Vector (t-GMIR) Necessary for the Production in MON 87701 (OECD Unique Identifier: MON-87701-2)			
Guideline Reference Number	Guideline Study Name	MIR Number	Status
885.4340	1991. B.i.k. HD-73 protein: Acute toxicity study with green pre-crawling larvae (<i>Chrysopa carnea</i>) of project number WIL-135-71. WL-93-927 and 92-01-362	431452-10	OWN
885.4340	1994. Effect of the <i>Bacillus thuringiensis</i> insecticidal proteins CryIA(b), CryIA(c), CryIIA, and CryIIA on <i>Folsomia candida</i> and <i>Xenylla grisea</i> (Insecta: Collembola)	431452-11	OWN
885.3050	1994. B.i.k. HD-73 protein: Acute formulation and determination of dose for an acute mouse feeding study ML-92-493. Monsanto number 92-073-13 and 92-427-716, MSL-13169	431452-12	OWN
885.3050	1993. Acute oral toxicity of <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> (CryI Ac) HD-73 protein in albino mice. Monsanto number 92197 and ML-92-493	431452-13	OWN
885.1100	1994. Assessment of the in-vitro digestive fate of <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> HD-73 protein. Monsanto number 92-01-36-22 and 92-427-728	431452-14	OWN
Signature	[Redacted]	Name and Title of Regulatory Affairs Manager	Date: November 8, 2010

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