

“ANNEX I”
APPROVAL REGISTRY OF REGULATED ARTICLES
FOR DIRECT USE AS FOOD AND FEED AND FOR PROCESSING
(As of September 10, 2015)

Transformation Event	Introduced Trait and Gene	Date Approved	Safety Assessment		Technology Developer	Other Countries with Similar Approval
			Food	Feed		
Soybean CV127	Contains gene <i>csr-2</i> from <i>Arabidopsis thaliana</i> which encodes the imidazoline herbicide tolerant acetohydroxyacid synthase (AtAHAS)	Oct. 29, 2010	✓	✓	BASF Philippines, Inc.	Australia, Brazil, Canada, China, EU, Japan, Korea, Mexico, South Africa, Taiwan, USA
Cotton MON88913	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp strain, CP4 which confers tolerance to the Roundup family of agricultural herbicides	Nov. 26, 2010 (renewal)	✓	✓	Monsanto Philippines	USA, Australia, Canada, China, Colombia, Japan, Korea, Mexico, Singapore, South Africa
Corn MON88017	Contains <i>cry3Bb1</i> gene from <i>Bacillus thuringiensis</i> which confers resistance to the corn rootworm, <i>Diabrotica</i> spp and <i>cp4epsps</i> gene from <i>Agrobacterium</i> sp. which confers tolerance to glyphosate	Mar. 21, 2011 (renewal)	✓	✓	Monsanto Philippines	USA, Japan, Australia, Canada, European Union, Korea, Singapore
Soybean A5547-127	Contains a synthetic phosphinothricin acetyltransferase (<i>pat</i> gene) from <i>Streptomyces viridochromogenes</i> expressing tolerance to glufosinate ammonium herbicide	June 23, 2011	✓	✓	Bayer CropScience, Inc.	Argentina, Australia, Brazil, Canada, Japan, Mexico, New Zealand, Russia, USA

Alfalfa J101 and J163	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp strain, CP4 which confers tolerance to the Roundup family of agricultural herbicides	Aug. 9, 2011 (renewal)	✓	✓	Monsanto Philippines	USA and Canada
Corn 59122	Contains <i>cry34Ab1</i> and <i>cry35Ab1</i> from <i>Bacillus thuringiensis</i> , which confers resistance to certain coleopteran pests such as corn rootworm, <i>Diabrotica</i> sp. and the <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which provides tolerance to glufosinate-ammonium herbicides	Aug. 9, 2011 (renewal)	✓	✓	Pioneer Hi-Bred and Dow Agro Sciences	USA, Korea and Mexico
Liberty Link(LL)62 Rice	Contains <i>bar</i> gene which encodes the enzymes Phosphinothricin Acetyltransferase (PAT) from <i>Streptomyces hygroscopicus</i> , which confers tolerance to herbicide containing glufosinate ammonium.	May 16, 2012	✓	✓	Bayer CropScience, Inc.	USA, Russian Federation, Argentina, Canada, Mexico, Europe, Colombia, South Africa, Philippines, Australia/ New Zealand, Honduras
Soybean MON87701	Contains <i>cry1Ac</i> gene from <i>Bacillus thuringiensis</i> (<i>Bt</i>) subsp. <i>kurstaki</i> , which confers resistance to lepidopteran pests: velvetbean caterpillar (<i>Anticarsia gemmatalis</i>), soybean looper (<i>Pseudoplusia includens</i>), soybean axil borer (<i>Epinotia aporema</i>), and sunflower looper (<i>Rachiplusia nu</i>).	May 16, 2012	✓	✓	Monsanto Philippines	Australia/New Zealand, Mexico, (food); Canada, Korea and Japan (food and feed)
Corn MIR604	Contains modified <i>cry3A</i> (mCry3A) from <i>Bacillus thuringiensis</i> subsp. <i>tenebriones</i> which confers resistance to corn rootworm	Oct. 5, 2012 (renewal)	✓	✓	Syngenta Philippines	Australia, Belarus/Kazakstan, Indonesia, Taiwan (Food); Colombia, European Union, Mexico, Russia (Food and Feed); Korea

						(Food and Environment); Argentina, Canada, Japan, USA (Food, Feed and Environment); China (Food, Feed and Processing)
Corn MON87460	Contains <i>cp4epsps</i> from <i>Agrobacterium tumefaciens</i> , which confers tolerance to glyphosate, the active ingredient in Roundup agricultural herbicides	Nov. 15, 2012	✓	✓	Monsanto Philippines	United States, Canada (Cultivation, Food, Feed); Japan, Australia, Taiwan (Food, Feed); Korea (Feed)
Soybean MON89788	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp. Strain, CP4 which confers resistance tolerance to Round up family of agricultural herbicides	Nov. 16, 2012 (renewal)	✓	✓	Monsanto Philippines	Australia, New Zealand, India, Indonesia, Taiwan (Food); Canada, Japan (Food, Feed, Production); China, Columbia, Korea, Mexico, Russian Federation, Singapore (Food and Feed); European Union (Food, Feed, Processing); United States (Production)
Corn MON810	Contains <i>cry1A(b)</i> gene from <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> which confers resistance to corn borer	Dec 3, 2012 (renewal)	✓	✓	Monsanto Philippines	Argentina (Environment); Australia/New Zealand, Mexico, Taiwan (Food); Canada, Japan, Korea, South Africa, United States, Uruguay (Food, Feed, Environment); China, European Union, Russia, Slovak Republic, Switzerland (Food and Feed); Columbia, Honduras (Environment and Food)
Corn 3272	Expresses a synthetic thermostable alpha amylase protein AMY797E that catalyzes the hydrolysis of starch into soluble sugars	Feb 7, 2013 (renewal)	✓	✓	Syngenta Philippines	USA, Canada, Japan (food, feed & environment); Mexico, Russian Federation, Russia/Belarus/Kazakhstan Customs Union, South Korea (food & feed);

						Australia and New Zealand, Taiwan (food)
Corn Bt11	Contains <i>cry1Ab</i> gene from <i>Bacillus thuringiensis</i> and <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which confer resistance to corn borer and tolerance to herbicide respectively	July 19, 2013 (renewal)	✓	✓	Syngenta Philippines	Argentina, USA, Canada, Japan, European Union, Switzerland, Republic of South Africa, Korea, China, Philippines, Russian Federation, Colombia and Mexico (food and feed); Australia and New Zealand, Indonesia, Malaysia, Taiwan, United Kingdom (food); The Netherlands, Turkey (feed)
Soybean 40-3-2	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp strain, CP4 which confers resistance tolerance to Round up family of agricultural herbicides	July 19, 2013 (renewal)	✓	✓	Monsanto Philippines	Argentina, Brazil, Canada, China, European Union, Japan, Colombia, Mexico, Paraguay, Russia, South Africa, Switzerland, USA, the Netherlands, Denmark, Romania, European Union, Czech Republic, Poland, Philippines, Singapore (food and feed); Australia and New Zealand, Canada, Korea, Malaysia, Japan, Taiwan, Thailand (food)
Soybean 305423	Introduced <i>gm-fad2-1</i> gene fragment provides seed with increased levels of monounsaturated (oleic) fatty acid and decreased levels of polyunsaturated fatty acids (linoleic and linolenic) and to a lesser extent, palmitic acid, via a mechanism of gene silencing. Introduced <i>gm-hra</i> gene encodes the GM-HRA protein conferring tolerance to	Sept. 9, 2013	✓	✓	Pioneer Hi-Bred Philippines	U.S.A., Canada, Australia / New Zealand, Mexico, South Korea, South Africa, Taiwan and Japan.

	ALS-inhibiting herbicides; it was used solely as a selectable marker, and does not provide a commercial level of herbicide tolerance.					
Corn NK603	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp. CP4 strain which confers tolerance to the Roundup family of agricultural herbicides	Sept. 10, 2013 (renewal)	✓	✓	Monsanto Philippines	Argentina, Australia, New Zealand, Canada, China, Colombia, EU, Honduras, Japan, Korea, Mexico, Russia, Singapore, South Africa, Taiwan and United States.
Corn TC1507	Contains <i>cry1F</i> and <i>pat</i> genes which confer resistance to certain lepidopteran pests such as the Asiatic corn borer and pink borer (<i>Sesamia</i> spp) and tolerance to glufosinate herbicides respectively	Oct. 7, 2013 (renewal)	✓	✓	Pioneer Hi-Bred and Dow Agro Sciences	USA, Japan, Canada, Australia, New Zealand, Taiwan, EU, South Korea, Mexico, China, South Africa, Argentina, Colombia
Canola Rt 73	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp. CP4 strain and the <i>GOXv247</i> coding sequence from <i>Ochrobactrum anthropi</i> strain LBAA that confers tolerance to the Roundup family of agricultural herbicides	Oct. 22, 2013 (renewal)	✓	✓	Monsanto Philippines	Australia, New Zealand, Canada, China, EU, Japan, Korea, Mexico, Singapore, United States.
Corn BT176	Contains <i>cry1Ab</i> gene from <i>Bacillus thuringiensis</i> and <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which confers resistance to lepidopteran insect pest and tolerance to herbicide	Oct 24, 2013 (renewal)	✓	✓	Syngenta Philippines	USA, Canada, Argentina, Japan, Netherlands, Switzerland, South Africa, Korea, China (food and feed) UK, Denmark, Australia, Taiwan (food)
Corn GA21	Contains modified <i>epsps</i> gene from corn which confers tolerance to herbicides	Nov. 20, 2013 (renewal)	✓	✓	Syngenta Philippines	USA, Canada, Japan, Korea, EU, China South Africa Mexico, Russia (food an feed); Australia and Taiwan (food)
Corn T25	Contains <i>pat</i> gene	Dec. 5, 2013			Bayer	USA, Europe,

	from <i>Streptomyces viridochromogenes</i> for tolerance to herbicide, phosphinotricin	(renewal)	✓	✓	CropScience, Inc.	Switzerland, South Korea, South Africa, Argentina, Japan, Australia, New Zealand, China, Canada, Russia, Taiwan
Cotton 1445	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp strain, CP4 which confers tolerance to the Roundup family of agricultural herbicides	Dec. 5, 2013 (renewal)	✓	✓	Monsanto Philippines	Argentina, Australia, New Zealand, Canada, China, Colombia, EU, Japan, Korea, Mexico, Singapore, South Africa, United States
Cotton 15985	Contains the <i>cry2Ab2</i> and <i>cry1Ac</i> genes from <i>Bacillus thuringiensis</i> var <i>kurstaki</i> which encode proteins that convey protection from lepidopteran insect pests	Dec. 5, 2013 (renewal)	✓	✓	Monsanto Philippines	Australia, New Zealand, Canada, China, EU, Japan, Korea, Mexico, Singapore, South Africa, United States
Soybean A2704-12	Contains <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which confers tolerance to glufosinate ammonium herbicide	Jan 23, 2014 (Renewal)	✓	✓	Bayer CropScience, Inc.	Canada, Argentina, Australia, China, EU, Japan, Mexico, Russia, South Africa, USA (food and feed); New Zealand and Taiwan (food)
Cotton 531	Contains <i>cry1Ac</i> gene from <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> which confers resistance to lepidopteran pests	Feb. 5, 2014 (renewal)	✓	✓	Monsanto Philippines	Argentina, Canada, China, Colombia, EU, Japan Singapore, USA (food and feed) Australia, New Zealand, Korea, Thailand (food)
Corn MON89034	Contains two genes (<i>cry1A.105</i> and <i>cry2Ab2</i>) from <i>Bacillus thuringiensis</i> which protect the plant from Asiatic corn borer, common cutworm and corn earworm	Apr. 29, 2014 (renewal)	✓	✓	Monsanto Philippines	USA, Canada, Japan, Mexico and Colombia
Soybean MON 87708	Contains <i>dmo</i> expression cassette derived from <i>Stenotrophomonas maltophilia</i> conferring tolerance to dicamba (3,6-dichloro-2-methoxybenzoic acid) herbicide	May 5, 2014	✓	✓	Monsanto Philippines	Australia/New Zealand, Japan, Taiwan (Food); Korea, Mexico, US (Food and Feed); Canada (Food and Propagation)

Soybean MON87705	Contains <i>cp4 epsps</i> expression cassette as a selectable marker and a partial <i>fatb1-A</i> and <i>fad2-1A</i> suppression cassette from <i>Agrobacterium</i> sp. strain CP4 controlling the fatty acid profile in soybean seed	November 28, 2014	✓	✓	Monsanto Philippines	US, Canada, Australia
Corn MON87427	Contains the <i>cp4 epsps</i> gene derived from <i>Agrobacterium</i> sp. strain CP4 conferring tolerance to glyphosate herbicide	November 28, 2014	✓	✓	Monsanto Philippines	USA, Canada, Australia, Japan, Mexico, Korea
Corn MIR162	Contains two novel genes: <i>vip3Aa20</i> gene from <i>Bacillus thuringiensis</i> which confers resistance to lepidopteran pests and <i>pmi</i> gene from <i>Escherichia coli</i> encoding the enzyme phosphomannose isomerase present as a selectable marker	Feb 11, 2015 (renewal)	✓	✓	Syngenta Philippines	Argentina, Australia, Belarus, Colombia, European Union, Brazil, Mexico Japan, Canada, Indonesia, Kazakhstan, Korea, Mexico, New Zealand, Russian Federation, South Africa, Taiwan, USA, Uruguay, Vietnam
Canola MON88302	Contains <i>cp4 epsps</i> from <i>Agrobacterium tumefaciens</i> which decreases binding affinity for glyphosate, thereby conferring increased tolerance to glyphosate herbicide	April 24, 2015	✓	✓	Monsanto Philippines	Australia, Canada, European Union, Japan, New Zealand, United States of America
Soybean MON87769	Contains Pj.D6D gene from <i>Primula juliae</i> and <i>Nc.Fad3</i> from <i>Neurospora crassa</i> – both desaturates certain endogenous fatty acids resulting in the production of stearidonic acid (SDA), an omega-3 fatty acid, and <i>cp4 epsps</i> gene from <i>Agrobacterium tumefaciens</i> which decreases binding affinity for glyphosate, thereby conferring increased tolerance to	April 24, 2015	✓	✓	Monsanto Philippines	Canada, Colombia, European Union, South Korea, United States of America

	glyphosate herbicide					
Corn 5307	Contains <i>cry1Ab</i> gene from <i>Bacillus thuringiensis</i> var <i>kurstaki</i> which produces crystal protein effective as insecticide against specific group of insect, <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which produces the enzyme, phosphinotricin-N-acetyl transferase that detoxifies glufosinate ammonium, <i>vip3Aa20</i> gene from <i>Bacillus thuringiensis</i> which encodes a vegetative insecticidal protein controlling several lepidopteran pest, <i>pmi</i> gene from <i>E. coli</i> which encodes the PMI protein for use as a selectable marker, <i>cry1F</i> gene from <i>Bacillus thuringiensis</i> var. <i>aizawai</i> strain PS811 which confers resistance to lepidopteran pests and <i>epsps</i> gene from <i>Zea mays</i> which confers tolerance to herbicides	June 11, 2015	✓	✓	Syngenta Philippines	Australia, Canada, Japan, Mexico, New Zealand, Russian Federation, South Korea, Taiwan, USA
Sugarbeet H7-1	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp. Strain, CP4 which confers tolerance to glyphosate herbicide	July 28, 2015(renewal)	✓	✓	Monsanto Philippines and KWS SAAT AG	Australia, Canada, China, Columbia, European Union, Japan, Korea, Mexico, Singapore, USA
Cotton COT102	Contains <i>vip3Aa19</i> from <i>Bacillus thuringiensis</i> strain AB88 which confers resistance to feeding damage caused by lepidopteran insects by selectively damaging their midgut lining and <i>aph4</i> from <i>Escherichia coli</i> which acts as selectable marker	September 9, 2015	✓	✓	Syngenta Philippines	US, Canada, Australia, Mexico and Japan

Soybean FG72	Contains <i>2mepsps</i> from <i>Zea mays</i> which decreases binding affinity for glyphosate, thereby increasing tolerance to glyphosate herbicide and <i>hppdPF W336</i> from <i>Pseudomonas fluorescens</i> strain A32 which confers tolerance to HPPD-inhibiting herbicides by reducing the specificity for the herbicide's bioactive constituent	September 9, 2015	✓	✓	Bayer CropScience	Australia/New Zealand, Canada, South Korea, US, Malaysia
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Attested by:



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