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**“ANNEX I-A”**

**APPROVAL REGISTRY  
 OF COMBINED TRAIT PRODUCTS  
 FOR DIRECT USE AS FOOD AND FEED AND FOR PROCESSING**  
*(As of August 28, 2018)*

Combined Trait Product	Introduced Trait and Gene	Date Approved/ Renewed	Interaction of the resulting gene products		Technology Developer	Other Countries with Similar Approval
			Yes	No		
1. Soybean MON87701 x MON89788*	Contains cry1Ac gene from <i>Bacillus thuringiensis</i> (Bt) 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> ) and cp4epsps coding sequence from <i>Agrobacterium</i> sp. Strain, CP4 which confers resistance tolerance to Round up family of agricultural herbicides	September 26, 2014		✓	Monsanto Philippines, Inc.	Mexico, Taiwan (Food); Turkey (Feed); China, Columbia, EU, India, Philippines, South Africa, South Korea (Food and Feed); Paraguay (Food and Cultivation); Argentina, Brazil, Japan, Uruguay (Food and Feed, and Cultivation)
2. Corn TC1507 x DAS59122 x MON810 x MIR604 x NK603* and all progenies from crosses of this product	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, <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, <i>cry1A(b)</i> gene from <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> which confers resistance to corn borer, modified cry3A (mCry3A) from <i>Bacillus thuringiensis</i> subsp. <i>tenebriones</i> which confers resistance to corn rootworm, and cp4epsps coding sequence from	October 28, 2014		✓	Pioneer Hi-Bred	Australia/New Zealand, Canada, Japan, Korea, Mexico, Taiwan and USA

\*Biosafety permit was issued under Department of Agriculture, Administrative Order No. 8, Series of 2002

\*\* Biosafety permit was issued under the DOST-DA-DENR-DOH-DILG Joint Department Circular No.1, Series of 2016

	<i>Agrobacterium</i> sp. CP4 strain which confers tolerance to the Roundup family of agricultural herbicides					
3. Corn GA21 x corn T25*	Contains modified <i>epsps</i> gene from corn which confers tolerance to herbicides and <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> for tolerance to herbicide, phosphinotricin	December 9, 2014		✓	Syngenta Philippines Inc.	Japan, Mexico (Food 2015), South Korea, Taiwan (Food 2014)
4. Corn TC1507 x MON810 x MIR162 x NK603* and all progenies from crosses of this product	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, <i>cry1A(b)</i> gene from <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> which confers resistance to corn borer, 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 phosphomannose isomerase present as a selectable marker, and <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp. CP4 strain which confers tolerance to the Roundup family of agricultural herbicides	Jan. 8, 2015		✓	Pioneer Hi-Bred	Argentina, Brazil, Japan, Mexico (Food 2013), South Korea, Taiwan (Food 2013)
5. Cotton 531 x cotton 1445*	Contains <i>cry1Ac</i> gene from <i>Bacillus thuringiensis</i> var. <i>kurstaki</i> , which confers resistance to lepidopteran pests and <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp strain, CP4 which confers tolerance to the Roundup family of agricultural herbicides	Jan. 8, 2015		✓	Monsanto Philippines	Argentina, Brazil, Colombia, European Union, Japan, Mexico (Food 2002), New Zealand (Food 2000), Paraguay, South Korea, Taiwan (Food 2015)
6. Cotton 15985 x cotton 1445*	Contains the <i>cry2Ab2</i> and <i>cry1Ac</i> genes which encode proteins that convey protection from lepidopteran insect pests and <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp strain, CP4 which confers tolerance to the Roundup family of agricultural herbicides	Jan. 8, 2015		✓	Monsanto Philippines	Canada, European Union, Japan, Mexico (Food 2006), New Zealand (Food 2002), South Korea
7. Corn MON89034 x corn 1507 x corn	Contains <i>cry1A.105</i> and <i>cry2Ab2</i> from <i>Bacillus</i>	Feb. 9, 2015		✓	Monsanto Philippines	USA, Canada and Japan

88017 x corn 59122* and all progenies from crosses of this product	<i>thuringiensis</i> which protect the plant from Asiatic corn borer, common cutworm and corn earworm, <i>cry1F</i> gene from <i>Bacillus thuringiensis</i> which confers resistance to certain lepidopteran pests such as the Asiatic corn borer and pink borer ( <i>Sesamia</i> spp) and the <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which provides tolerance to glufosinate- ammonium herbicide, <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, and <i>cry34Ab1</i> and <i>cry35Ab1</i> genes from <i>Bacillus thuringiensis</i> , which confers resistance to certain coleopteran pests such as corn rootworm, <i>Diabrotica</i> sp.				and Dow Agro Sciences	
8. Corn NK603 x corn T25*	Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp CP4 strain which confers tolerance to the Roundup family of agricultural herbicides and <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which encodes for tolerance to herbicide phosphinotricin	April 22, 2015		✓	Monsanto Philippines	Brazil, Colombia, European Union, Japan, Mexico (Food 2010), South Africa, South Korea, Taiwan (Food 2011)
9. Corn MON89034 X TC1507 X NK603* and all progenies from crosses of this product	Contain 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  Contains <i>cry1F</i> gene from <i>Bacillus thuringiensis</i> which confers resistance to certain lepidopteran pests such as the Asiatic corn borer and pink borer ( <i>Sesamia</i> spp) and the <i>pat</i> gene from <i>Streptomyces viridochromogenes</i> which provides tolerance to glufosinate- ammonium herbicide.  Contains <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp CP4 strain which confers	December 7, 2015		✓	Dow Agro Sciences and Monsanto Philippines	Argentina (Food 2012), Brazil, Colombia (Food 2014), European Union, Japan, Mexico (Food 2011), South Africa, South Korea, Taiwan (Food 2011), Uruguay (Food 2012)

	tolerance to the Roundup family of agricultural herbicides					
10. Corn BT11 X MIR162 X TC1507 X GA21* and all progenies from crosses of this product	Contains the cry1Ab gene from <i>Bacillus thuringiensis</i> which provides resistance to corn borer and pat gene from <i>Streptomyces viridochromogenes</i> which confers tolerance to herbicide; vip3Aa20 gene from <i>Bacillus thuringiensis</i> which confers resistance to lepidopteran pests; pmi gene from <i>Escherichia coli</i> encoding the enzyme phosphomannose isomerase present as a selectable marker; cry1F gene from <i>Bacillus thuringiensis</i> which confers resistance to certain lepidopteran pests such as the Asiatic corn borer and pink borer ( <i>Sesamia</i> spp); pat gene from <i>Streptomyces viridochromogenes</i> which provides tolerance to glufosinate-ammonium herbicide; and modified epsps gene from corn which confers tolerance to herbicides	December 7, 2015		✓	Syngenta Philippines	Argentina, Colombia (Food 2016), Japan, Mexico (Food 2011), South Africa, South Korea, Taiwan (Food 2011)
11. Soybean MON87708 X MON89788**	Contains dmo expression cassette derived from <i>Stenotrophomonas maltophilia</i> conferring tolerance to dicamba (3,6-dichloro-2-methoxybenzoic acid) herbicide, cp4epsps coding sequence from <i>Agrobacterium</i> sp. Strain, CP4 which confers resistance tolerance to Round up family of agricultural herbicides	February 1, 2018		✓	Monsanto Philippines	Canada (Feed and Environment, 2013); Colombia (Food, 2015; Feed, 2014); Japan (Food, 2014; Feed, 2013; Environment, 2014); Korea (Food, 2013; Feed, 2014); Mexico (Food & Feed, 2013); Taiwan (Food, 2014)
12. Corn Bt11 x corn DAS59122 x corn MIR604 x corn TC1507 x corn GA21** and all progenies from crosses of this product	Contains the cry1Ab gene from <i>Bacillus thuringiensis</i> which confers resistance to corn borer and pat gene from <i>Streptomyces viridochromogenes</i> which provides tolerance to herbicide; cry34Ab1 and cry35Ab1 genes from <i>Bacillus thuringiensis</i> , which confers resistance to certain coleopteran pests such as corn rootworm, <i>Diabrotica</i> sp. and the pat gene from <i>Streptomyces viridochromogenes</i> which provides tolerance to glufosinateammonium	April 5, 2018		✓	Syngenta Philippines Inc.	USA, Australia, Canada (food and feed) and Japan (food)

	herbicides; modified cry3A (mCry3A) from <i>Bacillus thuringiensis</i> subsp. <i>tenebriones</i> which confers resistance to corn rootworm; cry1F gene from <i>Bacillus thuringiensis</i> which confers resistance to certain lepidopteran pests such as the Asiatic corn borer and pink borer ( <i>Sesamia</i> spp); and modified epsps gene from corn which confers tolerance to herbicides					
13. Corn MON88017 X MON810**	Contains cry3Bb1 gene from <i>Bacillus thuringiensis</i> which confers resistance to the corn rootworm, <i>Diabrotica</i> spp; cp4epsps from <i>Agrobacterium</i> sp. which encodes for tolerance to glyphosate resistance and cry1Ab gene from <i>Bacillus thuringiensis</i> var <i>kurstaki</i> which confers resistance to corn borer	May 28, 2018		✓	Monsanto Philippines	Canada (Feed and Environment, 2006); European Union (Food and Feed, 2010); Japan (Food, 2005; Feed 2006; Environment 2006); Korea (Feed, 2008; Food 2006); Philippines (Food, Feed and Processing, 2011); South Africa (Food, Feed, or Processing, 2011); Taiwan (Food, 2014); U.S.(Environment (EPA), 2015*)
14. Cotton MON15985 X MON88913**	Contains the <i>cry2Ab2</i> and <i>cry1Ac</i> genes which encode proteins that convey protection from lepidopteran insect pests and the <i>cry3Bb1</i> gene from <i>Bacillus thuringiensis</i> subs <i>kumamotoensis</i> which confers resistance to corn root worm and the <i>cp4epsps</i> coding sequence from <i>Agrobacterium</i> sp. <i>CP4</i> strain which confers tolerance to the Roundup family of agricultural herbicides	May 28, 2018		✓	Monsanto Philippines	Australia (Environment, 2006); Brazil (Food, Feed and Environment, 2012); Canada (Feed, 2005); Colombia (Food, 2010; Feed, 2007; Environment, 2007); Japan (Food, 2005; Feed, 2006; Environment, 2006); Korea (Food, 2006; Feed, 2008); Mexico (Food & Feed, 2006, 2008; Environment, 2011); Philippines (Food, Feed & Processing, 2011); South Africa (Food, Feed and Environment, 2007); Taiwan (Food, 2015)
15. Soybean FG72 X A5547-127**	Contains <i>2mepsps</i> from <i>Zea mays</i> which decreases binding affinity for glyphosate, thereby increasing tolerance to glyphosate herbicide, <i>hppdPF</i> W336 from <i>Pseudomonas fluorescens</i> strain A32 which confers tolerance to HPPD-inhibiting herbicides by reducing the specificity for the herbicide's bioactive constituent, and a synthetic phosphinothricin acetyltransferase (pat gene) from <i>Streptomyces viridochromogenes</i> expressing tolerance to	June 22, 2018		✓	Bayer CropScience Inc.	Argentina, Australia/New Zealand, Brazil, Canada, Colombia, Japan, Korea, Mexico, Taiwan, and the United States

	glufosinate herbicide	ammonium					
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