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Report Highlights:

While Colombia's regulatory environment remains friendly toward the adoption of biotechnologyderived crops and products, congressional anti-biotechnology initiatives pose a threat to further acceptance, and risk undermining future investments to benefit consumers and the agricultural sector. In 2022, planted area of genetically engineered cotton showed a 62 percent increase as compared to 2021, and genetically engineered corn production decreased by 17 percent, but planting area remained the second-highest figure after the 2021 record.

Section I. Executive Summary:

Colombia remains receptive to adopting genetically engineered (GE) derived commodities and related technologies and has made significant progress in implementing regulations that facilitate biotechnology usage. However, political considerations have the potential to hinder the adoption of new technologies and inhibit liberalized biotechnology regulations. FAS Bogota (Post) is observing potential legislation that seeks to eliminate the use of transgenic seeds within self-defined "agroecological systems." The U.S.-Colombia Trade Promotion Agreement (CTPA) propelled Colombia to become the second-largest Latin American market for U.S. agricultural exports. In 2022, U.S.-Colombia bilateral food and agricultural trade reached \$8.1 billion. often derived from genetic engineering,

In 2003, Colombia ratified the Cartagena Protocol on Biosafety (CPB) and in 2005 published <u>Decree</u> <u>4525</u> that implements the CPB agreement. Since then, the Government of Colombia (GOC) has published various regulatory measures that outline new requirements and procedures for approving and using genetically engineered products in Colombia. Certain aspects of Colombia's agricultural biotechnology regulatory framework remain under review. This process provides opportunities to engage GOC regulatory agencies to facilitate the adoption of science-based regulatory policies, especially on low-level presence (LLP), and other innovative technologies. In 2022, the GOC issued <u>Resolution 29291</u> for crops obtained using innovative technologies to define if the crop is subject to genetically engineered or conventional crop regulations. According to this resolution,¹ certain genome-edited products such as waxy corn, blight resistant rice, low-pungent mustard, and low raffinose² soybeans were reassessed and determined to fall under conventional agricultural product regulations.

The GOC established three distinct biotechnology technical committees to analyze the environmental, biosafety, and food safety impacts of genetically engineered products (See Part B, Policy). Resolution 4254 from the Ministry of Health and Social Protection (MHSP) established the requirements for labeling foods that use modern biotechnology. Various political and regulatory challenges, however, impede the uptake the usage and acceptance of biotechnology in Colombia. On September 8, 2015, the Constitutional Court ruled in response to a lawsuit that favored of mandatory labeling of genetically engineered products.³ Despite the court's then two-year deadline to develop mandatory labeling regulations, the GOC has yet to produce any final rules.

Separately, the GOC has attempted to establish an LLP threshold policy, but internal deliberations continue which impede this process. In September 2022, a bill to ban the use of GE seeds in "agroecological" production systems went before Congress and approved in the first House of Representatives debate.⁴ In July 2023, <u>Law 2303</u>, was enacted, which mandated that the Colombian

¹ The regulation superseded the previous Resolution 29299, which provided regulatory frameworks and definitions for crops subject to genetically engineered or conventional crop regulations.

² A trisaccharide composed of galactose, glucose, and fructose and prevalent in soybeans and other crops.

³ The ruling was a response to a lawsuit against Consumer Law 1480, Article 24, which outlined food labeling requirements but did not directly address genetically engineered products or labeling.

⁴ Three additional debates are required for a bill to become law. See: <u>Proyecto de Ley 004 de 2002 Cámara</u>. *Agroecology* in this context has been defined as "...a set of practices, scientific knowledge, ancestral knowledge, a social and thought movement. It seeks the formation of agricultural and livestock systems with technological and productive models; economically viable, socially fair, culturally acceptable, ecologically sustainable that optimize and stabilize food production with an environmental and ecological commitment."

Agriculture and Livestock Institute (ICA) to maintain a special program to facilitate the introduction of "non-transgenic" banana and plantain varieties resistant and tolerant to Fusarium R4T.⁵

In 2002, GE-cotton was the first genetically engineered plant cultivated on a non-restricted commercial basis in Colombia. This was followed in 2007 when the GOC approved the use of GE-corn traits. Colombia approved cultivation of the first GE off-patent corn event in 2019. Last year, GE-corn remained as the mostly widely cultivated genetically engineered product. According to Post sources, GE-corn planted area in 2022 decreased 17 percent year-on-year to118,992 hectares, but remained the second-best figure after the 2021 record. Conversely, GE-cotton planted area increased 62 percent to 12,115 hectares. Within each value chain, GE-cotton represents 87 percent of the total cotton area planted, while GE-corn represents 26 percent of total corn area planted.

Within the cut flower value chain, Colombia continues to produce genetically engineered blue carnations, roses, and chrysanthemums under greenhouse conditions for export to Europe, and GE-blue petal roses for export to Japan. Colombia continues to import vaccines containing genetically engineered components to control certain animal diseases (See Appendix C).

⁵ Fusarium Race 4 Tropical (R4T) (fusarium wilt) is a severe threat to the production of bananas in Colombia and Latin America. See: <u>Fontagro</u>.

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PART I: Marketing

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CHAPTER 1: PLANT BIOTECHNOLOGY

PART A: Production and Trade

a) Research and Product Development

A range of Colombian organizations are producing significant research in the biotechnology sector. In 2019, ICA authorized the Colombian Grain Producers Association (Fenalce) to begin cultivating their corn genotype containing the TC-1507 (off-patent) event in Colombia's dry and humid Caribbean regions, Magdalena and Cauca River Valleys, Orinoquia, and the coffee region.

In addition, the Colombian Sugar Cane Research Center (CENICAÑA) is currently developing sugar cane varieties resistant to the yellow leaf virus as well as cultivars with increased sugar, biomass and salt, aluminum, and water stress tolerance. The International Center for Tropical Agriculture (CIAT) is researching genetically engineered rice, cassava, reduced cadmium cacao, and select grass cultivars, and School of Administration, Finance and Technological Institute (EAFIT) University is working on castor bean oleic content and *sacha inchi*, a perennial fruit with large, edible seeds. The Colombian Coffee Research Center (CENICAFE) is conducting biotechnology research on tobacco, the fungus *Beaveria bassiana*, and a coffee variety resistant to coffee berry borer. The International Corporation for Biological Research (CIB) is investigating potato varieties resistant to lepidopterous insects. Various Colombian universities and research institutes are also collaborating to develop rice and potato biotechnology varieties.

b) Commercial Production

Prior to 2006, the cotton varieties Bollgard and Roundup-Ready were the only non-restricted genetically engineered crops approved in Colombia. In 2007, the GOC approved the first stacked events, a cotton variety which combined the Bollgard and Roundup-Ready traits, as well as controlled plantings of GE-corn. In 2010, GE-soybean production was approved for commercial cultivation but only as an off-patent event by 2020. GE-blue carnations, blue petal roses and blue chrysanthemums are cultivated solely for export markets, and the current national area planted for these products is approximately 12 hectares.

Colombian farmers continue to adopt biotechnology. Colombian departments Meta, Tolima, Cordoba, Valle del Cauca, and Cesar have the highest GE-corn adoption per area planted, while 24 of 32 departments grow genetically engineered corn or cotton. In 2022, Colombia planted 118,992 hectares of corn, a 17 percent decrease year-on-year, but still the second highest rate in history after record 2021 figures. For GE-cotton, Colombia cultivated 12,115 hectares in 2021, a 62 percent increase year-on-year (See: Charts 1, 2, and 3).

There are pending applications for other crops and in different phases of approval (See Appendices A and B).



Chart 1. Genetically Engineered Corn and Cotton Area Planted Calendar Year (CY) 2002-2022 (Ha)

Chart 2. Colombia: Genetically Engineered Crop Production by Department (Ha)

GE adoption per Department/Hectares			
Corn		Cotton	
Meta	40,012	Cordoba	3,178
Tolima	20,969	Tolima	3,154
Cordoba	18,922	Cesar	2,067
Valle del Cauca	16,926	Huila	1,958
Cesar	4,524	Guajira	840
Casanare	3,487	Meta	408
Caldas	2,553	Valle del Cauca	259
Quindio	1,870	Cundinamarca	242
Risaralda	1,726	Casanare	9
Cundinamarca	1,678		
Arauca	1,215		
Cauca	966		
Vichada	948		
Bolivar	745		
Huila	744		
Santander	698		
Sucre	491		
Antioquia	225		
Magdalena	180		
Norte de Santander	39		
Guaviare	31		
Atlantico	23		
Boyaca	15		
Nariño	5		



Chart 3. Colombia - GE Crop Cultivation by Department (General Reference)

Data Source: For Charts 1-3, data provided by ICA-Colombian Agricultural Institute.

c) Exports

Genetically engineered blue carnations and chrysanthemums are exported to Europe, and GE-blue petal roses to Japan. In 2022 area planted for both blue carnations, blue petal roses and blue chrysanthemums remains unchanged at 12 hectares. In the Japanese retail market, blue petal roses sell for approximately \$40-50 per flower (stem).

d) Imports

The United States supplies most GE-cotton seed (144 MT), and genetically engineered soybeans are imported from Brazil (200 MT). In 2022, Colombia imported approximately \$2.2 billion of GE-derived agricultural products from the United States, including corn, cotton, DDGS, soybeans, and soybean products (e.g., meal, oil).

e) Food Aid

Colombia receives limited food aid from the United States. Any food aid containing genetically engineered events and utilized for human consumption must have regulatory approval in Colombia.

f) Trade Barriers

The lack of an LLP policy, a recent congressional initiative to progressively eliminate the use of genetically engineered seeds, and Law 2303 (mandating ICA to facilitate "non-transgenic" resistant varieties to Fusarium R4T), all have the potential to undermine Colombia's regulatory environment for genetically engineered products and would negate certain benefits for consumers and the agricultural sector. It is possible anti-biotechnology initiatives will be introduced again during the next legislative year (July 2023-June 2024), or later.

PART B: Policy

a) <u>Regulatory Framework</u>

Table 1. Legal Definitions

Legal Term (Spanish)	Legal Term (English)	Law and Regulations Where Term is Used	Legal Definition (English)
Organismo Vivo Modificado (OVM)	Living Modified Organism (LMO)	Decree 4525 Resolution 91505 Resolution 91506 Resolution 957 Resolution 2535 Resolution 29291	Any living organism that possesses a novel combination of genetic material obtained using modern biotechnology
Organismo Genéticamente Modificado (OGM)	Genetically Modified Organism (GMO)	Resolution 4525 Resolution 72221 Resolution 4254	Any living organism that has a new combination of genetic material that has been obtained through the application of recombinant DNA technology, its development or advances, as well as its parts, derivatives or products that contain them, with the ability to reproduce or transmit genetic info. Living modified organisms (LMO) referred in the Cartagena Protocol on biosafety and biotechnology are included within this concept.

All genetically engineered products that are developed must go through the regulatory approval process whether intended for environmental release, ornamentals, for human consumption, or for animal feed. The following ministries participate in the regulation of agricultural biotechnology production and imports:

- Ministry of the Environment, Housing and Territorial Development (MEHTD)
- Ministry of Health and Social Protection (MHSP)
- Ministry of Agriculture and Rural Development (MARD), through the Colombian Agricultural Institute (ICA)
- Ministry of Science and Technology (previously Colciencias)
- National Institute for the Surveillance of Food and Medicines (INVIMA)

<u>Decree 4525 (from 2005)</u>, established three interagency committees, consisting of the aforementioned ministries, which are responsible for biosafety issues as well as the evaluation and approval of biotechnology products. The committees responsible for biotech regulation are outlined below:

The National Technical Committee for Agriculture, Fishery, Forestry and Agro-industry (CTN-Bio): <u>Resolution 91506 from 2021</u>, established the CTN-Bio's internal regulations for assessing genetically engineered events for non-food-related genetically engineered products. Figure 1 illustrates the CTN-Bio approval process, which was reviewed and amended in 2021 as per <u>Resolution 91505</u>. The streamlined process allows for more predictable timelines.





The National Technical Committee for Environment (CTN-Environment): CTN-Environment's function is to assess genetically engineered events that may impact the environment. To date, however, CTN-Environment has not received any requests to review genetically engineered events. However, in

May 2010, MEHTD issued <u>Resolution 957</u> that describes the information that companies must submit for evaluation and the ministry's procedures for assessing genetically engineered events. Figure 2 illustrates the CTN-Environment approval process:



Figure 2. CTN-Environment Approval Process

The National Committee for Health and Human Nutrition (CTN-Health): CTN-Health's function is to assess the impact of genetically engineered products and by-products on human health. In 2017, MHSP issued <u>Resolution 2535</u> which transferred the responsibility of approving regulatory resolutions to INVIMA, which in turn has streamlined the approval procedures with predictable timelines. Figure 3 illustrates the CTN-Health approval process:



Figure 3. CTN-Health Approval Process

b) Approvals and Authorizations

The GOC must approve all genetically engineered events for commercial cultivation, food consumption, and animal feed. Both CTN-Bio and CTN-Health oversee the approval process for GE-derived feed and food materials, and committee decision timelines are not streamlined. These parallel timelines can result in internal asynchronous approvals (see Appendix B). Genetically engineered approvals for food expire after 10 years, at which point they must be re-approved. Under current submission guidelines, INVIMA has not provided additional requirements after the initial expiration renewal.

For a full list of biotechnology products approved for planting in Colombia, refer to Appendix A.

c) Stacked Events or Pyramided Event Approvals/Authorizations

All stacked genetically engineered events must be approved individually (by trait), and there is no official process to review stacked events. In 2017, CTN-Health established an internal procedure to facilitate the approval process for stacked events when their single events have already been approved. The procedure has reduced the current approval period and alleviated asynchronous approvals between exporting and importing countries.

d) Field Testing

Colombia requires field-testing for genetically engineered crop cultivation (see Appendix A) after a risk assessment is submitted to CTN-Bio for review and subsequent approval. Field testing must be completed in Colombia's different agroecological regions, which lengthens the review.

e) Innovative Biotechnologies

Three research groups research genome editing: the CIAT Research Center, Agrosavia, and EAFIT University. The CIAT Research Center primarily focuses on herbicide-tolerant cassava, increased rice yields, virus and bacteria-resistant rice, fortified rice (iron and zinc), bean nutritional quality, cadmium

absorption in cacao, and deep root forage grasses and rice for capturing carbon. Agrosavia is developing reduced-toxin potatoes and phosphorus-altered rice.⁶ EAFIT University is researching oleic content in castor bean.

<u>Resolution 29291</u> (from 2022), superseded Resolution 29299 which additionally covers genome-edited animals, microbes, and any other product using the technology, and creates a process to determine if genome-edited cultivars should be considered "living modified organisms" (LMO) or conventional organisms. The interested party is required to apply to ICA for review. Within a period of sixty business days, if no further information is required, ICA will determine if the new cultivar is considered genetically engineered and, therefore, if it is within the scope of regulation for GE-organisms. If deemed to be an LMO, the cultivar is required to go through the existing regulatory biotechnology framework. If the product is deemed not an LMO, the product is regulated by existing conventional crop legislation and regulations. ICA has reviewed four genome-edited crop submissions and concluded that the following crop varieties and traits (Table 2.) are not subject to biotechnology regulations.

Сгор	Trait	Evaluation Year
Rice Resistance to bacterial panicle blight		2020
Corn	Waxy corn modified for altered starch composition	2021
Mustard leaves	Improved flavor profile	2021
Soybeans	Low raffinose soybeans	2022

Table 2. Crops not Subject to GOC GE-Regulations

f) Coexistence

In 2006, ICA evaluated cross-pollination and found that genetically engineered and non-GE crops coexist without posing risks to non-genetically engineered crops. Regardless, cotton and corn farmers must apply the practice of buffer zones, or a natural barrier of fallow terrain, in compliance with ICA <u>Resolution 72221</u> (2020), that superseded Resolutions 682 and 2894 which establishes a buffer zone following the 80/20 or 96/4 (percent) scheme for cotton, and a 90/10 scheme for corn (Chart 4). Resolution 72221 also requires a 300-meter planting distance between genetically engineered and non-GE crops. See Part B, Section H, for more information.

⁶ Phosphorus-altered rice results in decreased phosphorus in the grain, but with higher levels in the tissue and leaves.

Chart 4. GE-Crop Buffer Zone Requirements



Data source: Program MARI, Insect Resistance Management.

f) Labeling and Traceability

Resolution 4254

Colombia's genetically engineered labeling requirements may impact the current GE-regulatory framework and the use of such technologies. In 2012, MHSP issued <u>Resolution 4254</u>, which established labeling requirements for food derived from modern biotechnology. The resolution requires labeling information for product safety and risks such as potential allergenicity. In addition, labeling must address significant differences with the product's conventional counterpart.

In 2015, the Constitutional Court of Colombia ruled in favor of mandatory labeling of GE-organisms in response to a lawsuit against Consumer Law 1480. Due to the decision, Congress was required to draft and implement legislation on mandatory labeling of GE-organisms within two years of the ruling. Despite the deadline, Congress produced no final rules. However, on August 14, 2019, a revised bill was submitted calling for mandatory labeling. The initiative only reached the first debate of the legislative process, which terminated in June 2020. No additional bills have been introduced under the 2023-2024 legislative calendar. Currently, Resolution 4254 regulates biotechnology labeling.

Resolution 4254 does not accept the use of statements such as "GMO free" and "does not contain GMO," unless the manufacturer demonstrates and sustains that the claim is truthful and not misleading. On April 22, 2020, INVIMA issued <u>IVC-INS-LI15</u> that establishes the frequency for importers to submit laboratory results to certify that products labeled as "non-GMO" do not contain detectable modified genetic material. These guidelines are intended to reduce delays at ports of entry as lot-by-lot testing is not always required, preserving product shelf life, and alleviating testing costs. The testing requirement does not apply when the primary ingredients are not included in Circular <u>4000-3988-19</u>. An increased number of imported packaged products entering the Colombian market include the "non-GMO Project Verified" or the "non-GMO/GE Process Verified" labels, which, as per current regulation, are considered equivalent to "GMO-free" claims. Therefore, manufacturers or importers must provide a supplementary label that clarifies the scope of the legend to be able to commercialize their products as per INVIMA's Communication <u>4000-1071-18</u>.

h) Monitoring and Testing

The GOC in 2009 issued Resolution 682, requiring GE-seed companies to adopt a "lifecycle stewardship" approach to guide producers, targeting genetically engineered cotton production. In September 2012, Resolution 2894 was issued to address the handling of GE-corn, outlining the regulatory expectations for farmers and genetically engineered seed companies. Both resolutions established a production and commercial road map for cotton and corn, the most widely grown GE-crops in Colombia. In 2020, ICA issued Resolution 72221 (combined Resolutions 682 and 2894), to improve and modify stakeholder responsibilities and standardize stewardship reporting. In 2018, the Colombian Association of Agricultural Biotechnology (Agro-Bio) released MARI, an insect resistance management program, to encourage producers to implement good agricultural practices and support pest resistance mitigation.

INVIMA conducts port of entry testing to check imported commodity shipments for unapproved GEproducts destined as raw materials for food and feed. To date, there have been no detections of unapproved events. INVIMA also monitors products that have "non-GMO Project Verified," "non-GMO/GE Process Verified," and "non-GMO" claims, and requests that importers support their claims with laboratory results before commercialization (See Part B, Section G for additional information on labeling and testing).

i) Low-Level Presence Policy

Industry and commodity exporters have previously expressed concern that not all commonly traded GEevents have been approved in Colombia, the result which could delay shipments because of asynchronous approvals. As approval times for food, feed and environmental release are not parallel, the GOC initially considered a 5 percent LLP threshold in 2014. However, in 2019, Colombia's National Planning Office began to address low-level presence in GE products destined for food use under the interagency sanitary and phytosanitary committee. It indicated that existing measures would be sufficient to address LLP concerns.

j) Additional Regulatory Requirements

There are no additional requirements for GE-products.

k) Intellectual Property Rights (IPR)

Colombia is a member of, and follows the guidelines for, the Convention for the Protection of Industrial Property, the World Trade Organization, G3 Mexico, the "Colombia and Venezuela Agreement," and the Andean Community. As a member of the Andean Community, Colombia adopted the following regulations:

- Decision 351, Common Provisions on the Protection of the Rights of Breeders of New Plant Varieties
- Decision 391, Common Regime on Access to Genetic Resources (Hodson & Carrizosa, 2007)

In 2012, Colombia's high court declared accession to the International Union for the Protection of New Plant Varieties (UPOV) 91 unconstitutional due to the government's lack of consultation with Afro-Colombian and indigenous communities. Colombia has continued to follow provisions under the Andean Community Decision 345, currently in effect.

1) Cartagena Protocol on Biosafety Ratification

As a signatory (and host) to the CPB, in 2002, Colombia approved the Biosafety Protocol via Law 740. To date, the regulations to implement the CPB and supporting laws are outlined in Decree 4525 of December 6, 2005; ICA resolution 1063 (2005), ICA resolution 72221 (2020); ICA resolution 91505 (2021), MHSP resolution 2535 (2017), and MEHTD resolution 957 (2010).

m) International Treaties and Forums

Colombia is active in the Nagoya Protocol discussions (on access to genetic resources and the fair and equitable sharing of benefits arising from their utilization), the Nagoya-Kuala Lumpur Protocol (on redress and liability), and the CPB Conference of the Parties. Colombia is also a signatory to the International Treaty on Plant Genetic Resources for Food and Agriculture, the International Plant Protection Convention, and participates in the Codex Alimentarius Commission (CODEX) to discuss biotechnology issues. In 2017, Colombia joined the Global Low-Level Presence Initiative to develop international approaches on LLP management. In 2020, Colombia became a member of the Organization for Economic Cooperation and Development, and in 2022, ratified the Escazu Agreement⁷ through Law 2273.

n) Related Issues

Over four consecutive legislative years beginning July 2020, bills aimed at establishing "transgenic free" municipalities, protecting farmer rights to save, reuse, and commercialize their seeds, and banning GE-seeds have all been introduced in Congress. In July 2023, <u>Article 64</u> from the Colombian Constitution was modified and includes access to seed exchange among other considerations. Still, biotechnology supporters have expressed their concerns and continue advocating for a science-based approach.

PART C: Marketing

a) Public/Private Opinions

In all, Colombia has taken a science-based approach toward regulating biotechnology. However, certain environmental NGOs continue to pressure government officials to reject biotechnology.⁸ Antibiotechnology activists have pushed for mandatory GE-labeling, seed bans, GE-free municipalities, and GE-derived agricultural product import bans. In addition, activists have inspired certain social science student groups and indigenous communities to oppose the introduction of GE-crops for cultivation and environmental release based on biodiversity concerns. As per current regulations, indigenous territories

⁷ Regional Agreement on Access to Information, Public Participation and Justice in Environmental Matters in Latin America and the Caribbean.

⁸ The GOC's basic principle is to adopt technologies that may help rural Colombia's economic and social development.

are deemed transgenic-free zones (See Part B, Section G for additional information on labeling. See Part A, Section F for additional information on trade barriers.)

b) Market Acceptance/Studies

For over 15 years, biotechnology-derived commodities have been used in Colombia. To date, public opinion and media coverage of biotechnology have been favorable, and consumers have not voiced significant concerns about products containing GE-derived materials.

An IFPRI study⁹ found that GE-cotton cultivation had economic benefits for women farmers, saving both time and money. The study helped highlight the role of women as practitioners and beneficiaries of biotech cotton production. In 2016, Agro-Bio's study demonstrated biotechnology as a valuable tool for farmers, with potential benefits to improve rural development and sustainable agriculture.

CHAPTER II: ANIMAL BIOTECHNOLOGY

PART D: Production and Trade

a) Research and Product Development

According to Post sources, various universities are researching animal biotechnology. However, the high costs associated with the technology is a key factor that has discouraged widespread research and adoption. Aquaculture and GE-cattle are areas for additional animal biotechnology research, but funding remains the primary constraint. There are presently no developments in animal cloning.

b) Commercial Production

None presently.

c) Exports

None presently.

d) Imports

Colombia has focused on importing recombinant vaccines and diagnostic kits for animal diseases (See Appendix C).

In 2016, certain international companies and local governments expressed interest in accessing GEinsect technology to control harmful pest populations. These technologies included the control of *Aedes aegypti* mosquito populations, a vector for dengue, Zika, chikungunya, yellow fever, and other arboviruses, as well crop protection against the Mediterranean Fruit Fly (Medfly).¹⁰

⁹ See: (Zambrano et al. 2011).

¹⁰ Technologies against the Medfly could be introduced first due to streamlined regulatory considerations, as it only requires the CTN Bio's assessment.

e) Trade Barriers

None at present.

PART E: Policy

a) <u>Regulatory Framework</u>

The GOC regulatory framework for plant biotechnology also applies to animal biotechnology. Per Decree 4525, CTN-Bio is the interagency committee responsible for evaluating and approving animal products following a risk evaluation by ICA.

b) Approvals/Authorizations

See Appendix C.

c) Innovative Biotechnologies

No developments have been identified at this time.

d) Labeling and Traceability

See Part B, Section G.

e) Additional Regulatory Requirements

None at present.

f) Intellectual Property Rights

See Part B, Section K.

g) International Treaties and Forums

Colombia's experience with biotechnology is mostly specific to plants. As a member of CODEX and the World Organization for Animal Health (OIE), the country attends meetings to discuss biotechnology.

h) Related Issues

None at present.

PART F: Marketing

a) Public/Private Opinions

Public knowledge of biotechnology is focused mostly on plant products. Animal biotechnology is less known and receives minimal media attention. Animal biotechnology is related to assisted reproductive technologies.

b) Market Acceptance, Studies

See Part F, Section A.

CHAPTER 3: MICROBIAL BIOTECHNOLOGY

PART G: Production and Trade

a) <u>Commercial Production</u>

Presently, there is no information available.

b) Exports

Colombia annually exports \$82.8 million of processed products to the United States, including prepared foods, wine and beer, condiments and sauces, fruit juices, cheese, infant foods, bread, (pastry, cakes and other "bakers wares") food preparations, and enzymes, which may contain microbial biotechnology-derived ingredients.

c) Imports

Each year, Colombia imports \$161.5 million in processed products from the United States including prepared foods, wine and beer, condiments and sauces, fruit juices, cheese, infant foods, bread (pastry, cakes, and other bakers wares,) food preparations, and enzymes. These products may contain microbial biotechnology-derived ingredients.

d) Trade Barriers

None at present.

PART H: Policy

a) <u>Regulatory Framework</u>

The Ministry of Health oversees food ingredients for human consumption regulations. There is no independent review for microbial biotech-derived components.

b) Approvals/Authorizations

See Part H, Section A.

c) <u>Labeling and Traceability</u>

In 2012, MHSP issued Resolution 4254 establishing the requirements for labeling of food derived from modern biotechnology. Foods containing one microbial biotech-derived ingredient, such as additives or enzymes, are exempt from GE-labeling requirements.

d) Monitoring and Testing

No monitoring or testing occurs for GE-microorganisms used as food ingredients.

e) Additional Regulatory Requirements

There are no additional requirements at present.

f) Intellectual Property Rights (IPR)

See Part B, Section K.

g) Related Issues

None.

PART I: Marketing

a) Public/Private Opinions

Public knowledge of biotechnology is mostly related to plants. Currently, there is no public opinion toward microbial biotechnology and its use in food production.

b) Market Acceptance, Studies

See Part I, Section A.

ATTACHMENTS:

APPENDIX A. COLOMBIA: CURRENT STATUS OF BIOTECHNOLOGY PRODUCTS FOR PLANTING

Сгор	Requesting Company	New Characteristics of Biotechnology	Authorized Activity
Carnations ICA resolution 1219	Flores Colombianas Ltda. (Holland)	Blue Carnations	Approved in 2000 for commercial production of carnations for exports only (greenhouse conditions).
Carnations ICA resolution 3932 ICA resolution 3858	Flower Development (Holland)	Blue Carnations	Approved in 2008 for commercial production of cut flowers for exports only (greenhouse conditions).
Carnations ICA resolution 231 ICA resolution 3569	Suntory Holdings Limited	Blue Carnations	Approved for commercial production of cut flowers for exports only (greenhouse conditions).
Roses ICA resolution 3857 ICA resolution 3786	International Flower Development (Holland)	Blue Petal Roses	Approved in 2009 for commercial production of cut flowers for exports only (greenhouse conditions).
Roses ICA resolution 72130			Approved in 2020 for field trials.
Chrysanthemum ICA resolution 3785	International Flower Development	Blue Chrysanthemum	Approved for experimental plantings in 2009 (greenhouse conditions).
Chrysanthemum ICA resolution 3570 and 82360	Suntory Holdings Limited	Blue Chrysanthemum	Approved in 2012 and 2020 for commercial production of cut flowers for exports only (greenhouse conditions).
Gypsophila ICA resolution 7169	Imaginature Limited	Blue Gypsophila	Approved in 2016 for commercial production of cut flowers.
LLCotton25 ICA resolution 1037 ICA resolution 1259 ICA resolution 2403 ICA resolution 4137	Bayer S.A.	Tolerant to glufosinate ammonium herbicide.	Approved in 2009 for agronomic field trials in the dry and humid Caribbean regions, upper Magdalena River (Tolima, Huila), Cauca River valley and eastern plains. Approved in 2010 for commercial plantings in the upper Magdalena River (Tolima, Huila) and the humid Caribbean region. Approved in 2014 for commercial plantings in the dry Caribbean region.
Bollgard Cotton-MON 531 ICA resolution 1247 ICA resolution 2202	COACOL-Monsanto (United States)	Resistant to some lepidopterous insects.	Approved for commercial plantings since 2003 in the humid Caribbean region, the upper Magdalena River valley and Cauca River valley. Approved for commercial plantings in the dry Caribbean region in May 2004 and eastern plains in 2007.

Roundup Ready Cotton MON 1445 ICA resolution 1006 ICA resolution 366	COACOL-Monsanto (United States)	Tolerant to Roundup herbicide.	Approved in 2004 for commercial plantings in dry and humid Caribbean regions. Approved in 2007 for commercial plantings in upper Magdalena River Valley and Cauca River Valley.
Bollgard/Roundup Ready Cotton-MON 531XMON 1445 ICA resolution 358 ICA resolution 3852 ICA resolution 2204	COACOL-Monsanto (United States)	Resistant to a wider variety of lepidopterous insects and tolerant to Roundup herbicide.	Approved in 2005 for biosafety assessments in dry and humid Caribbean regions, upper Magdalena River Valley, Cauca River valley and Meta. Approved in 2007 for commercial plantings in upper Magdalena River Valley, Cauca River Valley, the dry and humid Caribbean regions and Orinoquia.
Bollgard II and Roundup Ready Flex Cotton- MON 15985XMON 88913 ICA resolution 3851 ICA resolution 2203	COACOL-Monsanto (United States)	Resistant to a wider variety of lepidopterous insects and completely tolerant to Roundup herbicide.	Approved in 2005 for biosafety assessments in dry and humid Caribbean regions, upper Magdalena River Valley (Tolima and Huila), Cauca River Valley and Meta. Approved in 2003 for commercial plantings in dry and humid Caribbean regions and Orinoquia. Approved in 2007 for commercial plantings in upper Magdalena River Valley and Cauca River Valley.
Bollgard x Roundup Ready Flex Cotton- MON 531XMON 88913 ICA resolution 1726	COACOL-Monsanto (United States)	Resistant to wider variety of lepidopterous insects and completely tolerant to Roundup herbicide.	Approved in 2007 for commercial plantings.
Bollgard II and Roundup Ready Flex Cotton- MON 15985XMON 88913 ICA resolution 30193	Bayer S.A.	Resistant to a wider variety of lepidopterous insects and tolerant to Roundup herbicide.	2008 approval for commercial plantings in dry and humid Caribbean regions, the upper Magdalena River Valley, and Orinoquia.
Bollgard II and Roundup Ready Flex Cotton- MON 15985XMON 88913	CORPOICA	Resistant to a wider variety of lepidopterous insects and tolerant to Roundup herbicide.	Approved in 2018 for commercial plantings in the dry and humid Caribbean regions, Cauca River Valley, upper Magdalena River Valley and Orinoquia
Roundup Ready Flex MON 88913 cotton ICA resolution 880 ICA resolution 1258	COACOL-Monsanto (United States)	Tolerant to Roundup herbicide.	Approved for biosafety assessment in 2008 in dry and humid Caribbean regions, Cauca River Valley, upper Magdalena River Valley and Orinoquia. Approved in 2010 for commercial plantings for dry and

			humid Caribbean regions, Cauca
			River Valley, upper Magdalena River
			Valley and Orinoquia.
			Approved in 2012 for field trials in
Glytol and Liberty Link			dry and humid Caribbean regions,
cotton		Tolerant to Roundup and	Cauca River Valley, upper
ICA resolution 226	Bayer S.A.	ammonium herbicide.	Magdalena River Valley and
ICA resolution 4133			Orinoquia. Approved in 2014 for
ICA resolution 3053			commercial plantings in dry and
			humid Caribbean regions.
Glytol and Twilink			
cotton			1. 2014 2016
ICA resolution 4304	Bayer S.A.		Approved in 2014, 2016, and 2018
ICA resolution 18599			and 2020 for commercial plantings.
ICA resolution 30336			
ICA resolution 82364			
Glytol x Twinlink x			Approved in 2016 for biosafety field
COT 102 cotton	Bayer S.A.		trials.
ICA resolution 3924			
COT102 cotton			Approved in 2015 for biosafety field
ICA resolution 369	Bayer S.A.		trials. Approved for planting in 2020.
ICA resolution 82365			
ICA resolution 4041	CIAT (Colombia)	Drought tolerant.	Approved in 2010 for field trials in Villavicencio. Meta.
			Approved in 2000 for restricted
	CIAT (Colombia)	Resistant to White Leaf virus.	research and small-scale plantings in
Rice			open fields, in accordance with risk
			assessment.
Disc	CIAT (Colombia)	Resistant to White Leaf	Approved in 2008 for restricted
Rice		virus.	research.
	CIAT (Colombia)	Pagistant to the borar of	Approved in 2000 for small-scale
Cassava		stem/stalk	plantings in open fields per risk
		stem/stark.	assessment.
Cassava	CIAT (Colombia)	Modification of cytokine	Approved in 2000 for restricted
Cassava		production.	research per risk assessment.
Cassava	CIAT (Colombia)	Modification of	Approved in 2000 for restricted
Cassava		amylopectin production.	research per risk assessment.
Cassava	CIAT (Colombia)	Modification of cyanide	Approved in 2000 for restricted
Cassava		content.	research per risk assessment.
Cassava	CIAT (Colombia)		Approved in 2005 for restricted
ICA resolution 3854			research per risk assessment.
Cassava	CIAT (Colombia)		Approved in 2008 for restricted
ICA resolution 858			research per risk assessment.
Brachiaria (grass)	CIAT (Colombia)	"frog hopper" resistant	Approved in 2000 for restricted
(B. 400)	- (,	-8	research per risk assessment.
Coffee	CENICAFE (Colombia)	Borer resistant	Approved in 2000 for restricted
		Borer resistallt.	research per risk assessment.

E			
Potatoes ICA resolution 4469 ICA resolution 1628 ICA resolution 4040	Corporación de Investigaciones Biologicas	Resistant to <i>Tecia</i> solanivora.	Approved for field trials in Rio Negro, Antioquia in 2010.
Tobacco ICA Resolution 2492	CENICAFE (Colombia)		Approved in 2010 for confined research.
Fungus ICA Resolution 2492	CENICAFE (Colombia)		Approved in 2010 for confined research.
Coffee plants "coffee Arabica" ICA Resolution 2492	CENICAFE (Colombia)		Approved in 2010 for confined research.
Sugarcane ICA Resolution 3995	CENICAÑA (Colombia)	Resistant to yellow leaf syndrome.	Approved in 2005 for restricted research and small-scale plantings in open fields per risk assessment.
Yieldgard Corn Mon 810 ICA resolution 3850 ICA resolution 3743 ICA resolution 465 ICA resolution 1727	COACOL-Monsanto (United States)	Resistant to some lepidopterous insects.	Approved in 2005 for biosafety assessments in humid Caribbean region, upper Magdalena River, Cauca River. Approved in 2007 for controlled plantings in humid Caribbean region, upper Magdalena River, Cauca River Valley and eastern plains. Approved in 2008 for controlled plantings in the dry Caribbean, upper Magdalena River, Cauca River, eastern plains and the coffee region.
Yieldgard Corn ICA resolution 3742 ICA resolution 646	Dupont (United States)	Resistant to some lepidopterous insects.	Approved in 2008 for controlled plantings in dry and humid Caribbean and the coffee regions.
Yieldgard 2 Corn	COACOL-Monsanto (United States)	Resistant to some lepidopterous insects and tolerant to Roundup.	Risk assessment since 2005.
Yieldgard VTPro Corn MON 89034 ICA Resolution 881	COACOL-Monsanto (United States)	Resistant to a wider variety of lepidopterous insects.	Approved in 2007 for biosafety field trials in the dry and humid Caribbean regions, the coffee region, upper Magdalena River Valley, Cauca River Valley and eastern plains.
Yieldgard VT3Pro Corn 4008 ICA resolution 881	COACOL-Monsanto (United States)	Resistant to a wider variety of lepidopterous insects.	Approved in 2016 for controlled plantings in dry and humid Caribbean regions, Coffee region, upper Magdalena River Valley, Cauca River Valley and eastern plains.
Roundup Ready Corn (RR 2 corn) ICA resolution 1728 ICA resolution 3849	COACOL-Monsanto (United States)	Tolerant to Roundup herbicide.	Approved in 2005 for biosafety assessments in humid Caribbean region (Cordoba), upper Magdalena River Valley, Cauca River Valley

Roundup Ready Corn ICA resolution 7379 ICA resolution 1850 ICA resolution 1850 ICA resolution 1851 ICA resolution 1729 ICA resolution 1851 ICA resolution 1729 ICA resolution 1729 ICA resolution 3734Resistant co multiple resct and tolerant to Roundup Resistant to some lepidopterous insects and tolerant to Roundup herbicide.Approved in 2007 for controlled plantings in the Off controlled plantings in dury Carbbaan and coffee regions. Approved in 2008 for controlled plantings in dry Carbbaan and coffee regions. Approved in 2008 for controlled plantings in dry Carbbaan and coffee regions. Approved in 2008 for controlled plantings in dry Carbbaan and coffee regions. Approved in 2008 for controlled plantings in dry Carbbaan and coffee regions. Approved in 2008 for controlled plantings in dry Carbbaan and coffee regions. Approved in 2008 for controlled plantings in Co	ICA resolution 3740			and eastern plains. Approved in 2007
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ICA resolution 3787Cauca River Valley. Approved 2009 for controlled plantings in Magdalena River Valley and eastern plains.CCR corn-MON 88017COACOL-Monsanto (United States)Tolerant to Roundup and resistant to rootworm.Approved for biosafety trials.GA 21 corn ICA resolution 2936 ICA resolution 877Syngenta (Switzerland)Folerant to Roundup EPSPS gene.Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley, and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.	ICA resolution 3787		repluopterous insects.	plantings in humid Caribbean region,
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Image: constraint of the second statesCOACOL-Monsanto (United States)Tolerant to Roundup and resistant to rootworm.River Valley and eastern plains.CCR corn-MON 88017COACOL-Monsanto (United States)Tolerant to Roundup and resistant to rootworm.Approved for biosafety trials in dry and humid Caribbean regions, Cauca River Valley, upper MagdalenaGA 21 cornSyngenta (Switzerland)Tolerant to Roundup EPSPS gene.River, coffee region and Orinoquia.ICA resolution 2936Syngenta (Switzerland)Folerant to Roundup EPSPS gene.River, coffee region and Orinoquia.Bt 11 X GA 21 cornSyngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 cornSyngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid Caribbean region, Upper Magdalena River Valley.				for controlled plantings in Magdalena
CCR corn-MON 88017COACOL-Monsanto (United States)Tolerant to Roundup and resistant to rootworm.Approved for biosafety trials in dry and humid Caribbean regions, Cauca River Valley, upper Magdalena River, coffee region and Orinoquia. Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupBt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to Roundup				River Valley and eastern plains.
GA 21 corn ICA resolution 2936 ICA resolution 877Syngenta (Switzerland)Tolerant to Roundup EPSPS gene.Approved for biosafety trials in dry and humid Caribbean regions, Cauca River Valley, upper Magdalena River, coffee region and Orinoquia. Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.	CCR corn-MON 88017	COACOL-Monsanto (United States)	Tolerant to Roundup and	Approved for biosafety trials.
GA 21 corn ICA resolution 2936 ICA resolution 877Syngenta (Switzerland)Tolerant to Roundup EPSPS gene.Tolerant to Roundup EPSPS gene.River, coffee region and Orinoquia. Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.		Suices		Approved for biosafety trials in dry
GA 21 corn ICA resolution 2936 ICA resolution 877Syngenta (Switzerland)Tolerant to Roundup EPSPS gene.River Valley, upper Magdalena River, coffee region and Orinoquia. Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.				and humid Caribbean regions Cauca
GA 21 corn ICA resolution 2936 ICA resolution 877Syngenta (Switzerland)Tolerant to Roundup EPSPS gene.River, coffee region and Orinoquia. Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.				River Valley upper Magdalena
ON 21 contSyngenta (Switzerland)Tolerant to Roundup EPSPS gene.Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.	GA 21 corn			River coffee region and Orinoquia
ICA resolution 2550Syngenta (Switzerland)EPSPS gene.Approved in 2010 for controlled plantings in humid and dry Caribbean regions, Upper Magdalena River Valley, Cauca River Valley and Orinoquia.Bt 11 X GA 21 corn ICA resolution 3915Syngenta (Switzerland)Resistant to some lepidopterous insects and tolerant to RoundupApproved in 2010 for controlled plantings in humid Caribbean region, Upper Magdalena River Valley.	ICA resolution 2936	Syngenta (Switzerland)	Tolerant to Roundup	Approved in 2010 for controlled
Bt 11 X GA 21 corn Syngenta (Switzerland) Resistant to some Approved in 2010 for controlled ICA resolution 3915 Syngenta (Switzerland) Resistant to some Approved in 2010 for controlled	ICA resolution 877	Syngenta (Swnzernand)	EPSPS gene.	plantings in humid and dry
Bt 11 X GA 21 corn ICA resolution 3915 Syngenta (Switzerland) Resistant to some lepidopterous insects and tolerant to Roundup Approved in 2010 for controlled plantings in humid Caribbean region, Upper Magdalena River Valley.				Caribbean regions Upper Magdalena
Bt 11 X GA 21 corn ICA resolution 3915 Syngenta (Switzerland) Resistant to some lepidopterous insects and tolerant to Roundup Approved in 2010 for controlled plantings in humid Caribbean region, Upper Magdalena River Valley.				River Valley, Cauca River Valley
Bt 11 X GA 21 corn Resistant to some Approved in 2010 for controlled ICA resolution 3915 Syngenta (Switzerland) Resistant to Roundup Interval of the plantings in humid Caribbean region, Upper Magdalena River Valley. Interval of the planting sin humid Caribbean region, Interval of the planting sin humid Caribbean region,				and Orinoguia.
Bt 11 X GA 21 corn Syngenta (Switzerland) Iconstant to some in provod in 2010 for controlled ICA resolution 3915 Syngenta (Switzerland) Iepidopterous insects and plantings in humid Caribbean region, tolerant to Roundup			Resistant to some	Approved in 2010 for controlled
ICA resolution 3915 tolerant to Roundup Upper Magdalena River Valley.	Bt 11 X GA 21 corn	Syngenta (Switzerland)	lepidopterous insects and	plantings in humid Caribbean region
	ICA resolution 3915	- Jagenna (Switzeriana)	tolerant to Roundup	Upper Magdalena River Vallev

		herbicide.	Cauca River Valley and Orinoquia.
MON 89034-3 x MON 00603-6 corn ICA resolution 1036 ICA resolution 10492	COACOL-Monsanto (United States)	Tolerant to Roundup herbicide, resistant to some lepidopterous insects.	Approved in 2009 for biosafety field trials in the humid and dry Caribbean region, Upper Magdalena River valley, Cauca River valley and Orinoquia.
MON 89034-3 x MON 00603-6 corn ICA resolution 10492	COACOL-Monsanto (United States)	Tolerant to Roundup, resistant to some lepidopterous insects.	Approved in 2016 for controlled plantings in dry Caribbean region.
MIR162 (SYN-IR162-4) Corn ICA resolution 1257 ICA resolution 3574 ICA resolution 425 ICA resolution 426	Syngenta (Switzerland)	Resistant to some lepidopterous insects.	Approved in 2010 for biosafety trials and agronomic assessment in the dry and humid Caribbean regions, upper Magdalena River Valley, Cauca River Valley, Orinoquia. Approved 2012 for controlled plantings for humid Caribbean regions, and Orinoquia. Approved 2014 for controlled plantings in the Cauca River Valley, upper Magdalena River and dry Caribbean regions.
MON VT Triple PRO (VT3P) (MON 89034 X MON 88017) Corn ICA resolution 1260	COACOL-Monsanto (United States)	Tolerant to Roundup, resistant to rootworm.	Approved 2009 for biosafety field trials in the humid, dry Caribbean regions, Magdalena River Valley, Cauca River Valley, Orinoquia.
Bt11x MIR162 x MIR604 x GA21 corn ICA resolution 3572	Syngenta (Switzerland)	Tolerant to herbicide and resistant to insects.	Approved 2012 for biosafety trials and agronomic assessment in dry and humid Caribbean regions, upper Magdalena River Valley, Cauca River Valley, Orinoquia and coffee region.
DAS 59122- 7xTC1507xNK603 corn ICA resolution 1419 ICA resolution 3664	Dupont (United States)	Resistance to coleopteran and lepidopteran pests, and glyphosate and glufosinate-ammonium tolerance.	Approved 2011 for biosafety trials and agronomic assessment in dry and humid Caribbean regions, upper Magdalena River valley, Cauca River Valley, Orinoquia and coffee region.
MON 89034x TC 1507xNK603 Corn ICA resolution 3049	Dow AgroSciences de Colombia S.A.		Approved for controlled plantings in 2013.
MON 810 x TC 1507x MIR 162 x NK 603 corn ICA resolution 4005 and 7889	Dupont (United States)		Approved for commercial plantings in 2016 and 2022.
BT11 X MIR 162 X MIR 604 X TC 1507 X SYN 5307 X GA 21 Corn			Approved for biosafety trials.

ICA resolution 4134			
MZHG0JG corn ICA resolution 19220	Syngenta		Approved in 2018 for controlled plantings in the dry and humid Caribbean regions, Magdalena River Valley, and Orinoquia.
Fenaltec22 TC 1507 Corn ICA resolution 13025	FENALCE		Approved 2019 for commercial plantings in dry and humid Caribbean regions, Magdalena, and Cauca River Valleys, Orinoquia, and coffee region.
MON 89034 x TC1507 x MIR162 x NK603 Corn ICA resolution 61761 ICA resolution 61762 ICA resolution 7890	Dupont		Approved 2020 for commercial plantings in humid Caribbean region, Magdalena and Cauca River Valleys and Orinoquia. Approved for commercial plantings in 2022.
MON 87427 x MON 89034 x MIR162 x MON 87411 corn ICA resolution 82356	COACOL-Monsanto (United States)	Resistant to insects Tolerant to herbicide	Approved in 2020 for commercial plantings.
Roundup Ready soybean ICA resolution 1035 ICA resolution 2404 ICA resolution 227	COACOL-Monsanto (United States)	Tolerant to Roundup herbicide.	Approved in 2009 for biosafety field trials in dry and humid Caribbean regions, upper Magdalena River Valley, Cauca River Valley. Approved for commercial plantings 2010 in Orinoquia and 2012 in Cauca River Valley.
Round Up Ready 2 Yield Soybean ICA resolution3669 ICA resolution 3660	COACOL-Monsanto (United States)		Approved 2011 for biosafety assessment in dry, humid Caribbean regions, upper Magdalena River Valley, Cauca River Valley, Orinoquia.
Liberty link Soybean A5547-127 ICA resolution 4136			Approved 2014 for biosafety field trials.
FG 72X A5547 Soybean ICA Resolution 18601	Bayer S.A.		Approved in 2016 for biosafety field trials.
FG 72 Soybean ICA Resolution 3999	Bayer S.A.		Approved in 2016 for biosafety field trials.
GTS 4032 Soybean ICA Resolution 72113	COACOL-Monsanto (United States)	Herbicide-tolerant	Approved in 2020 for biosafety field trials. OFF-PATENT
GTS 4032 Soybean ICA Resolution 82351, 82352, 94973	COACOL-Monsanto (United States)	Herbicide-tolerant	Approved for planting. OFF-PATENT
GTS 4032 soybeans ICA resolution 102580	Alimentos FINCA S.A.S	Herbicide-tolerant	Approved for planting. OFF-PATENT
Sugar cane	CENICAÑA	Transformed genotypes	Approved for confined field trials in

ICA resolution 82361	of sugarcane (Saccharum 2020
	officinarum) to be used
	for ethanol production

APPENDIX B. COLOMBIA: CURRENT STATUS OF BIOTECHNOLOGY PRODUCT APPLICATIONS FOR FOOD, FEED & HEALTH

Сгор	Requesting Company	New Biotech Characteristics	Approved Applications	Approval Date
Bollgard Cotton-MON 531	COACOL-	Resistant to some	Raw material	Approved for food
SEABA ACT III	Monsanto (United	lepidopterous	for food and	and feed in 2003.
ICA resolution 2708	States)	insects.	feed.	
Roundup Ready Cotton-MON 1445	COACOL-	Tolerant to	Raw material	Approved for food
SEABA ACT V	Monsanto (United	Roundup.	for food and	in 2003. Approved
ICA resolution 1063	States)		feed.	for feed in 2004.
Bollgard II Cotton-MON 15985	COACOL-	Resistant to some	Raw material	Approved for food
MSP resolution 4587	Monsanto (United	lepidopterous	for feed and	2009,
INVIMA resolution 2020023676	States)	insects.	food.	2020.Approved for
ICA resolution 310				feed in 2008.
Roundup Ready Flex cotton-MON 88913	COACOL-	Tolerant to Roundup	Raw material	Approved for food
MSP resolution 4582	Monsanto (United	herbicide and to a	for feed and	in 2009 and 2020.
INVIMA resolution 2020023675	States)	wider spectrum of	food.	Approved for feed
ICA resolution 311		weeds.		in 2008.
LL Cotton 25	Bayer S.A.	Tolerant to	Raw material	Approved for feed
ICA resolution 307		Roundup.	for feed and	in 2008.
MSP resolution 1731			food.	Approved for food
INVIMA resolution 2021045474				in 2016 and 2021.
Bollgard II+Roundup Ready Flex Cotton	COACOL-	Resistant to some	Raw material	Approved for food
MON 15985XMON 88913	Monsanto (United	lepidopterous	for feed and	in 2010. Approved
MSP resolution 2390	States)	insects, tolerant to	food.	for feed in 2007.
ICA resolution 2944		Roundup, spectrum		
		of weeds.		
MON 88701 X MON 88913	COACOL-		Raw material	Approved for food
MSP resolution 3005	Monsanto (United		for food and	in 2016 and 2022.
ICA resolution 18590	States)		feed.	Approved for feed
INVIMA resolution 2022005640	Bayer S.A.			in 2016.
GHB 614 Glytol Cotton	Bayer S.A.	Tolerant to	Raw material	Approved for feed
ICA resolution 3567		herbicide.	for feed and	in 2012. Approved
MSP resolution 506			food.	for food in 2016,
INVIMA resolution 2021023287				2021.
GHB 614 Glytol X Liberty Link Cotton	Bayer S.A.	Tolerant to	Raw material	Approved for feed
LL25	BASF	herbicide.	for feed and	in 2012.
ICA resolution 3568			food.	Approved for food
MSP resolution 1454				in 2017 and 2023.
INVIMA resolution 2023007710				
GHB 614 Glytol x T304 X GHB119 X	Bayer S.A.	Tolerant to	Raw material	Approved for food
COT 102 Cotton	BASF	herbicide.	for food.	in 2017 and 2023.
MSP resolution 1453				

INVIMA resolution 2023007708				
Bollgard+Roundup Ready cotton-MON	COACOL-	Resistant to some	Raw material	Approved for food
531XMON 1445	Monsanto (United	lepidopterous	for food and	in 2008. Approved
MSP resolution 2179	States)	insects, tolerant to	feed.	for feed in 2007.
ICA resolution 2943		Roundup.		
COT 102 Cotton	Syngenta	Resistant to some	Raw material	Approved for feed
ICA resolution 4131		lepidopterous	for feed and	in 2014. Approved
MSP resolution 128		insects.	food.	2016 and 2021 for
INVIMA resolution 2021023292				food.
DAS 24236-5 Cotton	Dow Agrosciences		Raw material	Approved for feed
ICA resolution 2660	Corteva		for feed and	in 2015. Approved
MSP resolution 4007	Agriscience de		food.	for food in 2016
INVIMA resolution 2022005637	Colombia S.A.S			and 2022.
DAS 21023-5 Cotton	Dow Agrosciences		Raw material	Approved for feed
ICA resolution 2664	Corteva		for feed and	in 2015. Approved
MSP resolution 5853	Agriscience		food.	for food in 2016
INVIMA resolution 2022600253				and 2022.
DAS 21023-5XDAS 24236 X SYN 102 X	Dow Agrosciences		Raw material	Approved for feed
MON 88913 X DAS 81910 Cotton			for feed and	in 2017. Approved
ICA resolution 11243			food.	for food in 2018.
INVIMA resolution 2018027771				
MON 88913 X MON 15985 Cotton	COACOL-		Raw material	Approved for food
INVIMA resolution 2021005564	Monsanto		for food.	in 2020.
MON 88913 X MON 15985 Cotton	Agrosavia		Raw material	Approved for feed
ICA resolution 102583			for feed.	in 2021.
DAS 81910 Cotton	Dow Agrosciences		Raw material	Approved for feed
ICA resolution 20952			for feed and	in 2016 and food in
INVIMA resolution 81910			food.	2022.
Glytol x Twinlink x COT102 Cotton	Bayer S.A.		Raw material	Approved for feed
ICA resolution 3922			for feed.	in 2015.
Glytol x Twinlink	Bayer S.A.		Raw material	Approved for food
MSP resolution 1452			for food.	in 2017.
T 304-40 Cotton	Bayer S.A.		Raw material	Approved for food
MSP resolution 505			for food and	in 2016 and 2021.
INVIMA resolution 2021023286			feed.	Approved for feed
ICA resolution 5400				in 2017.
MON 88701 Cotton	COACOL-		Raw material	Approved for food
MSP resolution 132	Monsanto (United		for food and	in 2016, 2021.
INVIMA resolution 2021023288	States)		feed.	Approved for feed
ICA resolution 4009				in 2016.
LL Cotton 25	Bayer S.A.		Raw material	Approved for food
MSP resolution 1731			for food.	in 2016.
DAS 80910	Dow Agrosciences		Raw material	Approved for food
MSP resolution 5852	-		for food.	in 2016.
GHB 119 Cotton, MSP resolution 3298	Bayer S.A.		Raw material	Approved for food
INVIMA resolution 2021023285			for food and	in 2016, 2021.
ICA resolution 19228			feed.	Feed in 2018.

GHB 119 X GHB 614 Cotton	Bayer S.A.		Raw material	Approved for feed
ICA resolution 11236			for feed.	in 2017.
T-304-40 x GHB119 x COT102 Cotton	BASF Quimica		Raw material	Approved for feed
ICA resolution 82363	Colombiana S.A.		for feed and	in 2020 and food in
INVIMA resolution 2021038704			food.	2021.
COT 102 x MON15985 X MON88701 X	COACOL-		Raw material	Approved for feed
MON88913	Monsanto (United		for feed and	in 2016.
MSP resolution 4905	States), Bayer S.A.		food.	Approved for food
ICA resolution 18593				in 2016 and 2022.
INVIMA resolution 2022009522				
GHB811 x T304-40 x GHB119 x COT102	BASF	Resistant to some	Raw material	Approved for feed
Cotton		lepidopterous insects	for feed and	in 2022. Approved
ICA resolution 25689		and tolerant to	food.	for food in 2023.
INVIMA resolution 2023024849		Roundup herbicide.		
GHB811 x LLCotton25 x MON88701	BASF	Tolerant to some	Raw material	Approved for feed
Cotton		herbicides.	for feed.	in 2022.
ICA resolution 25688				
GHB811 x T-304-40 x GHB119 x	BASF	Resistant to some	Raw material	Approved for feed
COT102 x MON88701 Cotton		lepidopterous insects	for feed.	in 2022.
ICA resolution 25687		and tolerant to		Approved for food
INVIMA resolution 2023024851		Roundup herbicide.		in 2023.
GHB811 Cotton	BASF		Raw material	Approved for food
INVIMA resolution 2020014751			for food and	and feed in 2020.
ICA resolution 72112			feed.	
MON88702 Cotton	COACOL-		Raw material	Approved for food
INVIMA resolution 2020027966	Monsanto (United		for food and	and feed in 2020.
ICA resolution 82362	States)		feed.	
MON 88702 X MON 15985 X COT102 X	Bayer S.A.		Raw material	Approved for food
MON 88701 X MON 88913 Cotton			for food.	in 2023.
INVIMA resolution 2023024846				
GHB614 x T304-40 x GHB119 Cotton	BASF		Raw material	Approved for food
INVIMA resolution 2023007709			for food.	in 2023.
Yieldgard + Roundup Ready Corn-MON	COACOL-	Resistant to some	Raw material	Approved for feed
810XNK 603	Monsanto (United	lepidopterous insects	for feed and	in 2007. Approved
MSP resolution 4583	States)	and tolerant to	food.	for food in 2009
ICA resolution 1365		Roundup.		and 2020
INVIMA resolution 2020016747				
Bt Herculex I Corn-DAS 01507-1	Dupont (United	Resistant to some	Raw material	Approved for food
SEABA ACT V	States)	lepidopterous	for food and	and feed in 2006
ICA resolution 3745 and 82354		insects.	feed.	and 2020
Yieldgard Corn-MON 810	COACOL-	Resistant to some	Raw material	Approved for food
SEABA ACT V	Monsanto (United	lepidopterous	for food and	in 2003. Approved
ICA resolution 3746	States)	insects.	feed.	for feed 2006
Herculex I X Roundup Ready Corn-TC	Dupont (United	Resistant to some	Raw material	Approved for feed
1507XNK 603	States)	lepidopterous insects	for feed and	in 2009.Approved
ICA resolution 3083 MSP resolution 506		tolerant to Roundup.	food.	for food in 2010.
Herculex RW Corn-DAS 59122	Dupont (United	Resistant to some	Raw material	Approved for feed

ICA resolution 4473	States	lepidopterous	for feed and	in 2010. Approved
MSP resolution 1708		insects.	food.	for food in 2011
INVIMA resolution 2021045473				and 2021.
Yieldgard+Lysine	COACOL-	Resistant to some	Raw material	Pending for food
Corn-MON 810X LY 038	Monsanto (United	lepidopterous	for feed.	approval as request
	States)	insects. High lysine		was withdrawn.
		content.		
Yieldgard VTPro -MON 89034 Corn	COACOL-	Resistant to a wider	Raw material	Approved for food
MSP resolution 2394	Monsanto (United	variety of	for feed and	in 2010 and 2020.
INVIMA resolution 2021005567	States)	lepidopterous	food.	Approved for feed
ICA resolution 2367		insects.		in 2007.
MON VT Triple PRO (VT3P) (MON	COACOL-	Resistant to a wider	Raw material	Approved for food
89034 X MON 88017) Corn	Monsanto (United	variety of	for food and	in 2011, 2021 and
MSP resolution 1710	States)	lepidopterous	feed.	feed in 2011.
ICA resolution 3661		insects.		
INVIMA resolution 2021053745				
Yieldgard VTPro Corn X Roundup Ready	COACOL-	Resistant to variety	Raw material	Approved for feed
2-MON 89034 X NK 603	Monsanto (United	of lepidopterous	for feed and	in 2011.Approved
ICA resolution 3659	States)	insects and tolerant	food.	for food in 2010.
MSP resolution 2395		to Roundup.		
CCR corn-MON 88017	COACOL-	Resistant to some	Raw material	Approved for food
MSP resolution 1712	Monsanto (United	lepidopterous insects	for food and	in 2011 and 2021.
ICA resolution 1254	States)	and tolerant to	feed.	Approved for feed
INVIMA resolution 2021053743		Roundup.		in 2010.
Yieldgard+CCR Corn-MON 810X MON	COACOL-	Resistant to some	Raw material	Approved for food
88017	Monsanto (United	lepidopterous	for food and	in 2011 and 2021.
MSP resolution 1904	States)	insects, rootworm	feed.	Approved for feed
ICA resolution 3667		and tolerant to		in 2011.
INVIMA resolution 2021053743		Roundup.		
Lysine Corn-LY p38	COACOL-	High lysine content.	Raw material	Approved for food
MSP resolution 4585	Monsanto (United		for food and	in 2009. Approved
ICA resolution 2405	States)		feed.	for feed in 2010.
Bt 11 Corn	Syngenta	Resistant to some	Raw material	Approved for food
MSP resolution 1078	(Switzerland)	lepidopterous	for food and	in 2009, 2019.
ICA resolution 309		insects.	feed.	Approved for feed
INVIMA resolution 2019040929				in 2008.
GA 21 Corn	Syngenta	Tolerant to Roundup	Raw material	Approved for food
ICA resolution 2402	(Switzerland)	herbicide	for feed and	in 2012 and 2023.
MSP resolution 1692			food.	Approved for feed
INVIMA resolution 2023024847				in 2010.
Bt 11 X GA 21 Corn	Syngenta	Resistant to some	Raw material	Approved for feed
ICA resolution 4474	(Switzerland)	lepidopterous insects	tor feed and	2010. Approved for
MSP resolution 1695		tolerant to Roundup.	tood.	tood 2012, 2023.
INVIMA resolution 2023024863	~			
Bt 11 X TC 1507 X GA 21 Corn	Syngenta	Resistant to some	Raw material	Approved for food
ICA resolution 19222	(Switzerland)	lepidopterous insects	tor feed and	and feed in 2018.
INVIMA resolution 2018027787		tolerant to Roundup.	food.	

Smartstax Corn -Mon 89034 X TC1507 X	COACOL-	Resistant to some	Raw material	Approved for food
MON 88017 X DAS59122-7	Monsanto (United	lepidopterous	for food and	in 2010 and 2021.
MSP resolution 2393	States) and Dow	insects, rootworm,	feed.	Approved for feed
ICA resolution 3662	Agrosciences	tolerant to Roundup		in 2011.
INVIMA resolution 2021053747	-	and glufosinate.		
MIR 162 Corn	Syngenta	Resistant to some	Raw material	Approved for food
ICA resolution 4471	(Switzerland)	lepidopterous	for feed and	in 2012, 2021.
MSP resolution 1693		insects.	food.	Approved for feed
INVIMA resolution 2021038688				in 2010.
BT 11xMIR 162xGA21 Corn	Syngenta	Resistant to some	Raw material	Approved for feed
ICA resolution 2407	(Switzerland)	lepidopterous	for feed and	in 2010.
MSP resolution 1694		insects and tolerant	food.	Approved for food
INVIMA resolution 2019040928		to herbicides.		in 2012 and 2020.
MON 87460 Corn	COACOL-	Tolerant to drought.	Raw material	Approved for food
MSP resolution 1709	Monsanto (United		for food and	in 2011, 2021.
ICA resolution 224	States)		feed.	Approved for feed
INVIMA resolution 2021053742				in 2012
MON 87460 X NK 603 Corn	COACOL-	Tolerant to drought	Raw material	Approved for feed
ICA resolution 422	Monsanto (United	and herbicides.	for feed and	and food in 2014
MSP resolution 777	States)		food.	and 2019.
INVIMA resolution 2019031454				
MON 87460 X MON 89034 X MON	COACOL-	Resistant to some	Raw material	Approved for feed
88017 Corn	Monsanto (United	lepidopterous	for feed and	and food in 2014
ICA resolution 423	States)	insects, tolerant to	food.	and 2019.
MSP resolution 778		herbicides, drought.		
INVIMA resolution 2019031455				
MON 863-5 corn	COACOL-	Resistant to some	Raw material	Approved for feed
ICA resolution 4475	Monsanto (United	lepidopterous	for feed and	in 2010.Approved
MSP resolution 1711	States)	insects.	food.	for food in 2011.
BT 11 X MIR 162X MIR 604X GA 21	Syngenta	Rootworm resistant	Raw material	Approved for feed
Corn	(Switzerland)	and tolerant to	for food and	and food in 2012.
MSP resolution 119		herbicides.	feed.	
ICA resolution 232				
MIR 604 Corn	Syngenta	Rootworm resistant.	Raw material	Approved for feed
MSP resolution 118	(Switzerland)		for food and	and food in 2012.
ICA resolution 229			feed.	
MIR 604 X GA 21 Corn	Syngenta	Resistant to some	Raw material	Approved for feed
ICA resolution 230	(Switzerland)	lepidopterous insects	for feed and	in 2012.
MSP resolution 769		and tolerant to	food.	Approved for food
INVIMA resolution 2020018737		herbicide.		in 2014.
BT 11XMIR 604X GA 21 Corn	Syngenta	Resistant to some	Raw material	Approved for feed
ICA resolution 3046	(Switzerland)	lepidopterous insects	for feed and	in 2012. Approved
MSP resolution 775		tolerant to herbicide.	food.	for food in 2014
INVIMA resolution 2019040928				and 2019.
BT11XMIR 604X TC1507X5307XGA 21	Syngenta	Resistant to some	Raw material	Approved for feed
Corn	(Switzerland)	lepidopterous insects	for feed.	in 2016.
ICA resolution 18583		tolerant to herbicide.		

Liberty Link Corn - T25	Bayer S.A.	Tolerant to Roundup	Raw material	Approved for food
MSP resolution 121	BASF	herbicide.	for food and	in 2012, 2022. 2011
ICA resolution 3666			feed.	for feed.
INVIMA resolution 2022600254				
T25 XMON 810 Corn	Bayer S.A.	Resistant to some	Raw material	Approved for food
		lepidopterous insects	for food.	in 2012.
		tolerant to Roundup.		
T25 X NK 603 Corn	COACOL-	Tolerant to	Raw material	Approved for feed
MSP resolution 115	Monsanto (United	herbicide.	for food and	in 2012 and food in
ICA resolution 228	States)		feed.	2012, 2022.
INVIMA resolution 2022600256	Bayer S.A.			
T25 X NK 603 Corn X DAS40278	COACOL-	Tolerant to	Raw material	Approved for feed
INVIMA resolution 2021012389	Monsanto (United	herbicide.	for food and	and food in 2012.
	States)		feed.	
DAS 1507XMON 810 Corn	Dupont	Resistant to some	Raw material	Approved for feed
MSP resolution 1487	1	lepidopterous	for food and	and food in 2012.
ICA resolution 3573		insects.	feed.	
DAS 1507XMON 810X MON 603 Corn	Dupont	Resistant to some	Raw material	Approved for feed
MSP resolution 1488	2 upont	lepidopterous insects	for food and	and food in 2012.
ICA resolution 3571		herbicide tolerant	feed	
DAS 1507X DAS 59122X MON 603 Corn	Dupont	Resistant to some	Raw material	Approved for feed
MSP resolution 1486	Corteva	lenidonterous insects	for food and	in 2012 and food in
ICA resolution 3578	Agriscience de	herbicide tolerant	feed	2012 and 2022
INVIMA resolution 2022600252	Colombia S A S		reeu.	2012 and 2022.
TC 1507X MON 810 X MIR 604 X NK	Dupont	Resistant to some	Raw material	Approved for food
603 Corn	Duponi	lepidopterous insects	for food and	in 2016 Approved
MSP resolution 5856		herbicide tolerant	feed	for feed in 2018
ICA resolution 11244			reeu.	101 1000 III 2010.
TC 1507X MIP 604 X NK 603 Corn	Dupont	Resistant some	Raw material	Approved for feed
ICA resolution 10227	Dupont	lepidopterous insects	for feed and	and food in 2018
INVIMA resolution 2018027808		herbicide tolerant	food	
TC 1507 V MON 910 V MID 162V NK	Dunant	Desistant to some	Dour motoriol	Approved for food
602 Corm	Dupont	lonidonterous insoats	for food	in 2015 and 2020
MSD resolution 2118		herbigide telerent	101 1000.	III 2015 and 2020.
INVIMA resolution 2020027961		nerbicide toierailt.		
MON 20024 X TC 1507X NK 602 Com	COACOI	Desistant to some	Dow motorial	Approved for feed
ICA resolution 2050	COACOL-	lonidontonovo inconto	Kaw material	Approved for feed
ICA resolution 3050	States)	and tolorent to	for feed and	for food in 2014
INIXIMA resolution 2020022046	States)	and tolerant to	1000.	or 1000 III 2014
IN VINA resolution 2020025040	C		D	and 2020 .
BIII X MIR604 Corn	Syngenta	Resistant to some	Raw material	Approved for feed
MSP resolution 120		lepidopterous insects	for feed and	in 2013. Approved
ICA resolution 3048		and tolerant to	100d.	for food in 2012
IN VIVIA resolution $2023007/06$	a .	nerbicide.		and 2023.
BT11 X MIR162 Corn	Syngenta	Resistant to some	Raw material	Approved for food
MSP resolution 249		lepidopterous insects	tor tood and	in 2016 and 2022.
ICA resolution 18585		and tolerant to	feed.	Approved for feed
INVIMA resolution 2022005639		herbicide.		in 2016.

SYN E3272-5 Corn	Syngenta	Modified amylase	Raw material	Approved for feed
ICA resolution 3043		for ethanol	for feed and	in 2013.
MSP resolution 127		production.	food.	Approved for food
INVIMA resolution 2021038673				in 2016 and 2021.
SYN E5307-1 Corn	Syngenta		Raw material	Approved for feed
MSP resolution 5632			for feed and	in 2013.Approved
			food.	for food in 2014.
DAS 40278-9 Corn	Dow Agroscience	Herbicide-tolerant.	Raw material	Approved for feed
ICA resolution 3052			for feed and	in 2013.
MSP resolution 774			food.	Approved for food
INVIMA resolution 2019040915				in 2014 and 2019.
MON 87427 X MON 89034 X MON	COACOL-	Resistant to some	Raw material	Approved for food
88017 Corn	Monsanto (United	lepidopterous insects	for food and	and feed in 2014
MSP resolution 3488	States)	and tolerant to	feed.	and 2020.
ICA resolution 3047		herbicide.		
INVIMA resolution 2020018725				
MON 87427 X MON 89034 X NK 603	COACOL-	Resistant to some	Raw material	Approved for food
Corn	Monsanto (United	lepidopterous insects	for food and	and feed in 2014.
MSP resolution 3705	States)	and tolerant to	feed.	Approved for food
ICA resolution 3048		herbicide.		in 2020.
INVIMA resolution 2020018736				
MON 87427 X MON 89034 X TC 1507 X	COACOL-	Resistant to some	Raw material	Approved for food
MON 88017 X DAS 59122 Corn	Monsanto (United	lepidopterous insects	for food and	and feed in 2014.
MSP resolution 3489	States)	and herbicide	feed.	
ICA resolution 3043		tolerant.		
DAS 40278 X NK 603 Corn	Dow Agrosciences	Resistant to some	Raw material	Approved for food
MSP resolution 3487		lepidopterous insects	for food and	in 2014, 2020, feed
INVIMA resolution 2020023674		and	feed.	2014.
ICA resolution 3044				
DAS 40278 X NK 603 Corn X T25	Dow Agrosciences	Resistant to some	Raw material	Approved for feed
ICA resolution 82355		lepidopterous insects	for feed.	in 2020.
		and tolerant to		
		herbicide.		
MON 87427 Corn	COACOL-	Tolerant	Raw material	Approved for feed
ICA resolution 424	Monsanto (United	to herbicide.	for feed and	and food in 2014
MSP resolution 1862	States)		food.	and 2019.
INVIMA resolution 2019040926				
MON 87460 X MON 89034 X NK 603	COACOL-	Resistant to some	Raw material	Approved for food
Corn	Monsanto (United	lepidopterous	for feed and	and feed in 2014.
ICA resolution 427	States)	insects and tolerant	food.	Approved for food
MSP resolution 776		to herbicides.		in 2019.
INVIMA resolution 2019043839				
MON 89034 X NK 603 Corn	COACOL-	Resistant, some	Raw material	Approved for food
INVIMA resolution 2021005565	Monsanto (United	lepidopterous pests,	for food.	in 2020.
	States)	herbicide tolerant.		
MON 89034 X TC 1507 X NK 603 X		Tolerant	Raw material	Approved for feed
DAS 40278-9 Corn	Dow Agrosciences	to herbicide.	for feed and	in 2014.

INVIMA resolution 2022009525			food.	Approved for food
ICA resolution 4135				in 2016 and 2022.
MSP resolution 4904				
MON 89034 X TC 1507 X NK 603 X MIR		Herbicide tolerant.	Raw material	Approved for food
162 Corn	Dow Agrosciences		for food and	and feed in 2018.
INVIMA resolution 2018027772			feed.	
ICA resolution				
TC 1507 X MON 810 X MIR 162 X NK	Dupont (United	Resistant to some	Raw material	Approved for feed
603 Corn	States)	lepidopterous pests,	for feed.	in 2015.
ICA resolution 002		herbicide tolerant.		
MON 89034 X TC 1507 X MIR 162 X NK	Dow Agrosciences	Resistant to some	Raw material	Approved for feed
603 X DAS40278 Corn		lepidopterous	for feed and	and food in 2018.
ICA resolution 30339		insects and tolerant	food.	
INVIMA resolution 2018027773		to herbicides.		
TC 1507 X MON 810 X MIR 162 Corn	Dupont (United	Resistant to some	Raw material	Approved for feed
ICA resolution 4006	States)	lepidopterous pests,	for feed and	in 2016. Approved
INVIMA resolution 2020027962		herbicide tolerant.	food.	for food in 2020.
TC 1507 X MON 810 Corn	Dupont (United	Resistant to some	Raw material	Approved for food
INVIMA resolution 2020027965	States)	lepidopterous pests,	for food.	in 2020.
		herbicide tolerant.		
TC 1507 X MON 810 X NK 603 Corn	Dupont (United	Resistant to some	Raw material	Approved for food
INVIMA resolution 2020027963	States)	lepidopterous pests,	for food.	in 2020.
		herbicide tolerant.		
DP 4114 Corn	Dupont (United		Raw material	Approved for food
MSP resolution 123	States)		for food and	in 2016 and 2021.
ICA resolution 4004			feed.	Approved for feed
INVIMA resolution 2021023289				in 2016.
DP 202216 Corn	Dupont (United		Raw material	Approved for feed
ICA resolution 82359	States)		for feed.	in 2020. Approved
INVIMA resolution 2021012391				for food in 2021.
DP 4114 x MON 810 x MIR 604 X NK	Dupont (United		Raw material	Approved for feed
603 Corn	States)		for food and	in 2016. Approved
MSP resolution 3297			feed.	for food in 2016
ICA resolution 4936				and 2022.
INVIMA resolution 2022500204				
DP 4114 X MON 89034 X MON 87411 X	Dupont (United		Raw material	Approved for food
DAS 40278 Corn	States)		for food and	and feed in 2021.
INVIMA resolution 2021023291			feed.	
ICA resolution 102582				
DP 23211 Corn	Dupont (United		Raw material	Approved for feed
ICA resolution 113673	States)		for feed and	in 2021. Approved
INVIMA resolution 2021045472			food.	for food in 2021.
DP 915635	Dupont (United		Raw material	Approved for feed
ICA resolution 113674	States)		for feed and	in 2021.Approved
INVIMA resolution 2022500205			food.	for food in 2022.
TC 1507 x 59122 X MON 810 x MIR 604	Dupont (United		Raw material	Approved for food
X NK 603 Corn	States)		for food and	in 2016. Approved

MSP resolution 5857		feed.	for feed in 2018.
ICA resolution 11242			
TC 1507 x 59122 X MON 810 X NK 603	Dupont (United	Raw material	Approved for feed
Corn	States)	for feed and	and food in 2018.
ICA resolution 19226		food.	
INVIMA resolution 2018027809			
BT11xMIR162xTC1507xGA21	Syngenta	Raw material	Approved for food
Corn		for food and	in 2016 and 2021.
MSP resolution 124		feed.	Approved for feed
ICA resolution 4003			in 2016.
INVIMA resolution 2021038695			
BT11XDAS59122XMIR604XTC1507xG	Syngenta	Raw material	Approved for feed
A21 Corn		for food and	in 2016. Approved
MSP resolution 126		feed.	for food in 2016
ICA resolution 4002			and 2021.
INVIMA resolution 2021045475			
TC1507XDAS59122 Corn	Dupont	Raw material	Approved for feed
ICA resolution 19225		for feed and	and food in 2018.
INVIMA resolution 2018027807		food.	
DAS59122 x NK603 Corn	Dupont	Raw material	Approved for food
INVIMA resolution 2018027810		for food.	in 2018.
TC1507 X NK603 Corn	Dupont	Raw material	Approved for feed
ICA resolution 19224		for feed and	in 2018.Approved
INVIMA resolution 2020027964		food.	for food in 2020.
BT11xMIR162XMIR604XTC1507XSYN	Syngenta	Raw material	Approved for food
5307x GA21 Corn		for food.	in 2016 and 2021.
MSP resolution 129			
INVIMA resolution 2021045476			
BT11xMIR162XMIR604XMON89034XS	Syngenta	Raw material	Approved for feed
YN5307X GA21 Corn		for feed and	and food in 2018.
ICA resolution 25845		food.	
INVIMA resolution 2018027803			
BT11xMIR162XMON89034XGA21 Corn	Syngenta	Raw material	Approved for feed
ICA resolution 19223		for feed and	and food in 2018.
INVIMA resolution 2018027795		food.	
MIR604XTC1507XMON810 Corn	Dupont	Raw material	Approved for food
MSP resolution 130		for food.	in 2016.
SYN3272XBT11XMIR604XGA21 Corn	Syngenta	Raw material	Approved for food
MSP resolution 2463		for food.	in 2016.
SYN3272XBT11XMIR604XTC1507X530	Syngenta	Raw material	Approved for feed
7XGA21 Corn		for feed.	in 2017.
MSP resolution 3700 289			
SYN3272XBT11XMIR162XMIR604XTC	Syngenta	Raw material	Approved for feed
1507X5307XGA21 Corn		for feed.	in 2022.
ICA resolution 7888			
BT11XMIR162XMON89034 Corn	Syngenta	Raw material	Approved for feed
ICA resolution 25844		for feed and	and food in 2018.

INVIMA resolution 2018027798		food.		
MON 87419 Corn	COACOL-	Raw n	naterial	Approved for food
INVIMA resolution 2018040210	Monsanto (United	for foc	od and	and feed in 2018.
ICA resolution 30337	States)	feed.		
MON 87411 Corn	Syngenta	Raw n	naterial	Approved for feed
MSP resolution 5850		for foc	od and	in 2016 and for
ICA resolution 18592		feed.		food in 2016 and
INVIMA resolution 2022600206				2022.
MIR162XMON89034 Corn	COACOL-	Raw n	naterial	Approved for feed
ICA resolution 25840	Monsanto (United	for fee	d and	and food in 2018.
INVIMA resolution 2018027786	States)	food.		
MON 87427 X MON 89034 X MIR 162 X	Syngenta	Raw n	naterial	Approved for feed
NK 603 Corn	Bayer S.A.	for foc	od and	in 2017 and for
MSP resolution 250		feed.		food in 2017 and
ICA resolution 3701				2023.
INVIMA resolution 2023007707				
MON 87427 X MON 89034 X MIR 162 X	COACOL-	Raw n	naterial	Approved for food
MON 87419 X NK 603 Corn	Monsanto (United	for foc	od and	and feed in 2020.
INVIMA resolution 2021005561	States)	feed.		
ICA resolution 82357				
MON 87427 X MON 89034 X TC 1507 X	COACOL-	Raw n	naterial	Approved for feed
MON87411 X DAS 59122 Corn	Monsanto (United	for fee	d and	and food in 2018.
ICA resolution 25841	States)	food.		
INVIMA resolution 2018027783				
MON 87427 X MON 89034 X TC 1507 X	COACOL-	Raw n	naterial	Approved for feed
MON87411 X DAS 59122 X MON 87419	Monsanto (United	for fee	d and	and food in 2019.
Corn	States)	food.		
ICA resolution 13024				
INVIMA resolution 2019040927				
MON 87427 X MON 89034 X	COACOL-	Raw n	naterial	Approved for food
MON87419 X NK 603 Corn	Monsanto (United	for fee	d and	in 2019. Approved
INVIMA resolution 2019040930	States)	food.		for feed in 2020.
ICA resolution 61761				
MON 87427 x MON87419 x NK 603 Corn	COACOL-	Raw n	naterial	Approved for food
INVIMA resolution 2020023047	Monsanto (United	for foc	od and	and feed in 2020.
ICA resolution 82358	States)	feed.		
MON 89034 X TC 1507 X MON87411 X	Dow Agrosciences	Raw n	naterial	Approved for food
DAS 59122 X DAS 40278 Corn		for foc	od.	in 2018.
INVIMA resolution 2018027774				
MON 87427 X MON 89034 X DAS 1507	Dow Agrosciences	Raw n	naterial	Approved for food
X MON87411 X DAS 59122 X DAS		for foc	od.	in 2018.
40278 Corn				
INVIMA resolution 2018027775				
MON 87427 X MON 89034 X MIR162 X	COACOL-	Raw n	naterial	Approved for feed
MON87411 Corn	Monsanto (United	for fee	d and	and food in 2018.
ICA resolution 19218	States)	food.		
INVIMA resolution 2018027780				

MIR162 x MON87411 x MON87419 Corn ICA resolution 94974Monsanto (United States)and tolerant to herbicides.for feed and food.and food in 2021.MON 87427 X MON 87460 X MON 89034 X TC 1507 X MON 87411 X DAS 59122 CornCOACOL- Monsanto (United States)Raw material food.Approved for feed and food in 2018.INVIMA resolution 20185027785States)food.and food in 2018.INVIMA resolution 2018027790SyngentaRaw material food.Approved for feed and food in 2018.INVIMA resolution 2018027790SyngentaRaw material food.Approved for feed and food in 2018.INVIMA resolution 2019015592SyngentaRaw material food.Approved for feed and food in 2018.INVIMA resolution 2019015592SyngentaRaw material food.Approved for feed and food in 2019.MON 89034 X TC 1507 X MON 88017 X Dow AgroscienceRaw material Raw material Approved for foodApproved for feed food.
ICA resolution 94974States)herbicides.food.INVIMA resolution 2021014502MON 87427 X MON 87460 X MONCOACOL-Raw materialApproved for feed89034 X TC 1507 X MON 87411 X DASMonsanto (Unitedfor feed and food.and food in 2018.59122 CornStates)States)food.Image: States (States)ICA resolution 25843States)food.Image: States (States)food.INVIMA resolution 20185027785SyngentaRaw materialApproved for feedMZHG0JG CornSyngentafor feed and food.and food in 2018.INVIMA resolution 19221Syngentafood.food.INVIMA resolution 2018027790SyngentaRaw materialApproved for feedMZIR098 CornSyngentaRaw materialApproved for feedINVIMA resolution 2019015592SyngentaRaw materialApproved for feedINVIMA resolution 2019015592Dow AgroscienceRaw materialApproved for food
INVIMA resolution 2021014502COACOL-Raw material for feed and for feed and food.Approved for feed and food in 2018.89034 X TC 1507 X MON 87411 X DAS 59122 CornMonsanto (United States)Raw material food.Approved for feed and food in 2018.ICA resolution 25843 INVIMA resolution 20185027785SyngentaRaw material for feed and for feed and for feed and for feed and and food in 2018.MZHG0JG Corn ICA resolution 19221 INVIMA resolution 2018027790SyngentaRaw material food.MZIR098 Corn ICA resolution 30332 INVIMA resolution 2019015592SyngentaRaw material food.Approved for feed in 2018. Approved food.MON 89034 X TC 1507 X MON 88017 X MON 89034 X TC 1507 X MON 88017 XDow AgroscienceRaw material Approved for foodApproved for food
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89034 X TC 1507 X MON 87411 X DAS 59122 CornMonsanto (United States)for feed and food.and food in 2018.ICA resolution 25843 INVIMA resolution 20185027785SyngentaRaw material food.Approved for feed and food in 2018.MZHG0JG Corn ICA resolution 19221 INVIMA resolution 2018027790SyngentaRaw material food.Approved for feed and food in 2018.MZIR098 Corn ICA resolution 30332 INVIMA resolution 2019015592SyngentaRaw material food.Approved for feed for feed and for feed and for food in 2019.MON 89034 X TC 1507 X MON 88017 XDow AgroscienceRaw material Raw material Approved for food
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ICA resolution 25843 INVIMA resolution 20185027785Raw material SyngentaApproved for feed and food in 2018.MZHG0JG Corn ICA resolution 19221 INVIMA resolution 2018027790SyngentaRaw material food.Approved for feed and food in 2018.MZIR098 Corn ICA resolution 30332 INVIMA resolution 2019015592SyngentaRaw material food.Approved for feed and food in 2019.MON 89034 X TC 1507 X MON 88017 XDow AgroscienceRaw material Raw material Approved for food
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ICA resolution 30332for feed and for feed and for food in 2018. Approved food.INVIMA resolution 2019015592for food in 2019.MON 89034 X TC 1507 X MON 88017 X Dow AgroscienceRaw material Approved for food
INVIMA resolution 2019015592food.for food in 2019.MON 89034 X TC 1507 X MON 88017 X Dow AgroscienceRaw material Approved for food
MON 89034 X TC 1507 X MON 88017 X Dow Agroscience Raw material Approved for food
DAS 59122 X DAS 40278 Corn Corteva for food. in 2016 and 2022.
MSP resolution 4903 Agriscience
INVIMA resolution 2022009523
GA21 X T25 Corn Syngenta Raw material Approved for food
MSP resolution 5849 for food and feed in 2016.
ICA resolution18582 feed.
MON87427 x MON89034 x TC1507 x Dow Agroscience Raw material Approved for feed
MON87411 x DAS59122 x DAS40278 for feed. in 2019.
Corn
MON 810 X NK 603 corn COACOL- Tolerant to Roundup Raw material Approved for food
INVIMA resolution 2020015747 Monsanto and insect resistant. for food. in 2020.
5307 Corn Syngenta Resistant to insects. Raw material Approved for food
INVIMA resolution 2020032881 for food. in 2020.
Fenaltec22 TC 1507 FENALCE Raw material Approved for food
INVIMA resolution 2022500207 for food. in 2022.
SYN3272 x BT11 x MIR162 x GA21 corn Syngenta Raw material Approved for feed
ICA resolution 13535 for feed. in 2022.
Roundup Ready Wheat *1-MON 71800 COACOL- Tolerant to Roundup Raw material Approved for food
SEABA ACT II Monsanto herbicide. for food. in 2004.
HB4 Wheat IND-ØØ412-7 Rizobacter de Tolerance to abiotic Raw material Approved for feed
ICA resolution 82350 Colombia S.A.S stress. Herbicide for feed and in 2020 and food in
INVIMA resolution 2022500206 tolerance. food. 2022.
Roundup Ready Sovbean-MON 04032- COACOL- Tolerant to Roundup Raw material Approved for food
6/GTS 40302 Monsanto (United herbicide. for food and in 2005 and feed in
SEABA ACT VII States) feed. 2007.
ICA resolution 2942
Roundup Ready Soybean-MON 04032- Alimentos FINCA Raw material Approved for feed
6/GTS 40302 SAS Agropecuaria for feed. in 2020 (Off-
ICA resolution 82353 and 95614
ALIAR S.A.

Roundup Ready Soybean-MON 04032-	FENALCE			Not approved for
6/GTS 40302				feed/commercial
ICA resolution 13534				plantings
Roundup Ready 2Yield Soybean-MON	COACOL-	Tolerant to Roundup	Raw material	Approved for food
89788	Monsanto (United	herbicide.	for feed and	in 2010 and 2021.
ICA resolution 1256	States)		food.	Approved for feed
MSP resolution 2391				in 2010.
INVIMA resolution 2021005568				
GAT Soybean-DP 356043	Dupont (United	Tolerant to	Raw material	Approved for food
MSP resolution 2392	States	herbicide.	for food and	and feed in 2010.
ICA resolution 2406			feed.	
DP202216 Soybean	Dupont (United	Tolerant to	Raw material	Approved for food
INVIMA resolution 2021012391	States	herbicide.	for food.	in 2021.
MON 87701X MON 89788 Soybean	COACOL-	Resistant to some	Raw material	Approved for food
MSP resolution 116	Monsanto (United	lepidopterous insects	for food and	in 2012 and 2022.
ICA resolution 3663	States)	and tolerant to	feed.	Approved for feed
INVIMA resolution 2022600255	Bayer S.A.	Roundup herbicide		in 2011.
Glycine Max Soybean-CV 127	BASF	Tolerant to Roundup	Raw material	Approved for food
MSP resolution 117		herbicide.	for food and	in 2012. Approved
ICA resolution 3668			feed.	for feed in 2011.
A 270412 Soybean	BASF	Tolerant to Roundup	Raw material	Approved for food
INVIMA resolution 2020023048		herbicide.	for food.	in 2020.
MON 87705 Soybean	COACOL-	Tolerant to Roundup	Raw material	Approved for feed
ICA resolution 3566	Monsanto (United	herbicide.	for feed and	in 2012. Approved
MSP resolution 338	States)		food.	for food in 2014
INVIMA resolution 2019031452				and 2019.
MON 87701 Soybean	COACOL-	Resistant to some	Raw material	Approved for food
INVIMA resolution 2019030764	Monsanto	lepidopterous insects	for food.	in 2019.
MON 87769 Soybean	COACOL-	Tolerant to Roundup	Raw material	Approved for feed
ICA resolution 3565	Monsanto	herbicide.	for feed and	in 2012. Approved
MSP resolution 339			food.	for food in 2014
INVIMA resolution 2019031453				and 2019.
A5547 Soybean	Bayer S.A.	Tolerant to	Raw material	Approved for feed
ICA resolution 3564		herbicide.	for feed and	in 2012.
MSP resolution 3486			food.	Approved for food
INVIMA resolution 2020018738				in 2014 and 2020.
A2704 Soybean	Bayer S.A.	Tolerant to	Raw material	Approved for feed
ICA resolution 3579		herbicide.	for feed and	in 2012. Approved
MSP resolution 4083			food.	for food in 2014.
DAS68416-4 Soybean	Dow Agroscience	Tolerant to	Raw material	Approved for feed
ICA resolution 3051		herbicide.	for feed and	in 2013. Approved
MSP resolution 131			food.	for food in 2016.
MON 87708 X MON 89788 Soybean	Monsanto	Tolerant to	Raw material	Approved for feed
ICA resolution 420		herbicide.	for feed and	in 2014. Approved
MSP resolution 1257			food.	for food in 2015.
INVIMA resolution 2021005562				

MON 87708 X MON 89788 X A5547	Monsanto	Tolerant to	Raw material	Approved for food
Soybean		herbicide.	for food and	and feed in 2018.
ICA resolution 30333			feed.	
INVIMA resolution 2018027784				
MON 87708 Soybean	COACOL-	Tolerant to	Raw material	Approved for food
MSP resolution 1259	Monsanto	herbicide.	for food.	in 2015.
MON 87705 X MON 89788 Soybean	COACOL-	Tolerant to Roundup	Raw material	Approved for feed
ICA resolution 131	Monsanto (United		for feed and	and food in 2015
MSP resolution 1258	States)		food.	and 2020.
INVIMA resolution 2021005632				
MON 87705 X MON 89788 X MON	COACOL-	Tolerant to Roundup	Raw material	Approved for feed
87708 Soybean	Monsanto (United	herbicide.	for feed and	and food in 2018.
ICA resolution 19219	States)		food.	
INVIMA resolution 2018027782				
MON 87751 X MON 87708 X MON	COACOL-	Tolerant to Roundup	Raw material	Approved for feed
87701 X MON89788 Soybean	Monsanto (United	herbicide.	for feed and	in 2018. Approved
ICA resolution 30333	States)		food.	for food in 2019.
INVIMA resolution 2019030763				
MON 87769 X MON 89788 Soybean	COACOL-	Tolerant to Roundup	Raw material	Approved for feed
ICA resolution 132	Monsanto (United	herbicide.	for feed and	and food in 2015
MSP resolution 1256	States)		food.	and 2020.
INVIMA resolution 2021005563				
DAS 44406 Soybean	Dow Agroscience	Tolerant to	Raw material	Approved for feed
ICA resolution 134		herbicide.	for feed and	in 2015. Approved
MSP resolution 125			food.	for food in 2016
INVIMA resolution 2021045617				and 2021.
DAS 68416-4 x MON 89788-1 Soybean	Dow Agroscience	Tolerant to	Raw material	Approved for feed
ICA resolution 2665		herbicide.	for feed and	in 2015.Approved
MSP resolution 3006			food.	for food in 2016.
ACS-GM006-4 Soybean	Bayer S.A.	Tolerant to	Raw material	Approved for food
MSP resolution 3486		herbicide.	for food.	in 2014.
ACS-GM005-3 Soybean	Bayer S.A.	Tolerant to	Raw material	Approved for food
MSP resolution 4083		herbicide.	for food.	in 2014.
SYHT0H2 Soybean	Syngenta and		Raw material	Approved for feed
ICA resolution 2661	Bayer S.A.		for feed and	in 2015. Approved
MSP resolution 307			food.	for food in 2017.
FG72(MST-FG072-2) Soybean	Bayer S.A.		Raw material	Approved for food
ICA resolution 4001			for food and	in 2016, 2021.
MHS resolution 2464			feed.	Approved for feed
INVIMA resolution 2022014893				in 2016.
DAS-68416XMON89788 Soybean	Dow Agroscience		Raw material	Approved for feed
MSP resolution 5851			feed, food.	and food in 2016.
FG72 x A5547-27 Soybean	Bayer S.A.		Raw material	Approved for feed
ICA resolution 18597	BASF Quimica		for food and	in 2016 and for
MSP resolution 5854	Colombiana S.A.		feed.	food in 2016 and
INVIMA resolution 2022600205				2022.

DP 305423 Soybean	Dupont		Raw material	Approved for feed
MSP resolution 5855			for food and	in 2016 and for
ICA resolution 18588			feed.	food in 2016 and
INVIMA resolution 2022600208				2022.
DP 305423 X MON 040326 Soybean	Dupont		Raw material	Approved for food
MSP resolution 702			for food and	in 2017. Approved
ICA resolution 18586			feed.	for feed in 2016.
DAS 81419 X DAS 44406 Soybean	Dupont		Raw material	Approved for feed
ICA resolution 18595			for feed and	in 2017. Approved
INVIMA resolution 2018027770			food.	for food in 2018.
DAS 81419 Soybean	Dow Agrosciences		Raw material	Approved for feed
ICA resolution 3998	-		for feed and	in 2016 and for
INVIMA resolution 2022600207			food.	food in 2022.
MON 87751 Soybean	COACOL-		Raw material	Approved for food
MSP resolution 251	Monsanto (United		for food and	in 2017 and 2023.
ICA resolution25838	States) Bayer S.A.		feed.	Approved for feed
INVIMA resolution 2023007705				in 2018.
GMB 151 Soybean	BASF	Tolerant to	Raw material	Approved for food
INVIMA resolution 2021023145		herbicides, resistant	for food and	and feed in 2021.
ICA resolution 102581		to nematodes.	feed.	
Roundup Ready Sugar Beet-H7-1/KM	COACOL-	Tolerant to Roundup	Raw material	Approved on for
0071	Monsanto (United	herbicide.	for food and	food in 2005.
ICA resolution 1255	States)		feed.	Approved for feed
SEABA ACT VII				in 2010.
Liberty-link Rice	Bayer S.A.	Tolerant to	Raw material	Approved for food
LLRice62		herbicide.	for food and	and feed in 2008.
MSP resolution 5333			feed.	
ICA resolution 308				
LLRice601	Bayer S.A.	Tolerant to	Raw material	Approved for food
MSP resolution 3674		herbicide.	food, feed.	and feed in 2008.
MON 88302-9 Canola	COACOL-	Tolerant to	Raw material	Approved for feed
ICA resolution 421	Monsanto (United	herbicide.	for feed and	and food in 2014
MSP resolution 5806	States)		food.	and 2020.
INVIMA resolution 2020016745				
RF3 Canola	Bayer S.A.	Tolerant to	Raw material	Approved for feed
MSP resolution 1607		herbicide.	for food and	in 2017 and food in
ICA resolution 11239			feed.	2017 and 2023.
INVIMA resolution 2023007711				
MS8 Canola	Bayer S.A.	Tolerant to	Raw material	Approved for feed
ICA resolution 11294		herbicide.	for feed and	in 2017. Approved
INVIMA resolution 2018027776			food.	for food in 2018.
MON88302XRF3 Canola	Bayer S.A.	Tolerant to	Raw material	Approved for feed
ICA resolution 11240		herbicide.	for feed and	in 2017. Approved
INVIMA resolution 2018027779			food.	for food in 2018.
MS8XMON88302XRF3 Canola	Bayer S.A.	Tolerant to	Raw material	Approved for feed
ICA resolution 11246		herbicide.	for feed and	in 2017. Approved

INVIMA resolution 2018027777			food.	for food in 2018.
DP73496 Canola	Corteva	Tolerant to	Raw material	Approved for feed
INVIMA resolution 2022009524	Agriscience de	herbicide.	for feed and	and food in 2022.
ICA resolution 7887	Colombia S.A.S		food.	
MS11 Canola	BASF	Tolerant glufosinate	Raw material	Approved for feed
ICA resolution 15185		ammonium.	for feed and	and food in 2022.
INVIMA resolution 2022600210			food.	
Mice 3XTg AD	Universidad de		Controlled	Approved in 2008.
MSP resolution 2836	Antioquia		health	
			research.	
Mice ApoE-/- 6 Apoe "knockout"	Universidad de		Controlled	Approved in 2008.
MSP resolution 2835	Antioquia		health	
			research.	
Mice	Science,		Immunosupp	Approved in 2019
INVIMA resolution 2019030765	Biotechnology and		ressed mice.	
	Health Innovation			
	Institute			

Attachments:

No Attachments