



SCOPE OF ACCREDITATION

IAS Accreditation Number	TL-480
Company Name	Genista Biosciences, Inc.
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Effective Date of Scope	April 9, 2019
Accreditation Standard	ISO/IEC 17025:2005

FIELDS OF TESTING	ACCREDITED TEST METHODS
Microbiology	Genista Alicyclobacillus spp (Real-Time PCR); Genista Bacillus cereus (Real-Time PCR); Genista Campylobacter coli (Real-Time PCR); Genista Campylobacter jejuni (Real-Time PCR); Genista Campylobacter lari (Real-Time PCR); Genista Campylobacter spp.(Real-Time PCR); Genista Campylobacter upsaliensis (Real-Time PCR); Genista Clostridium botulinum (Real-Time PCR); Genista Clostridium difficile (Real-Time PCR); Genista Clostridium spp. (Real-Time PCR); Genista Coliform (Real-Time PCR); Genista E. coli (Real-Time PCR); Genista E. coli O104:H4 (Real-Time PCR); Genista E. coli O157:H7 (Real-Time PCR); Genista EHEC (Real-Time PCR); Genista Hepatitis A (Real-Time PCR); Genista Hetero. Lactic Acid Bacteria (Real-Time PCR); Genista Lactic Acid Bacteria (Real-Time PCR); Genista Listeria monocytogenes (Real-Time PCR); Genista Listeria spp. (Real-Time PCR); Genista Propionic Acid Bacteria (Real-Time PCR) Genista Pseudomonas aeruginosa (Real-Time PCR); Genista Pseudomonas spp. (Real-Time PCR); Genista Salmonella enterica (Real-Time PCR); Genista Salmonella spp. (Real-Time PCR); Genista Shigella spp. (Real-Time PCR); Genista Somatic Cell Count (Real-Time PCR); Genista Standard Plate Count (Real-Time PCR); Genista Staphylococcus aureus (Real-Time PCR); Genista Staphylococcus enterotoxin (Real-Time PCR); Genista STEC (Real-Time PCR); Genista Yeast and Mold (Real-Time PCR); Standard PlateCount (Easygel) Alicyclobacillus spp. (IFU) Alicyclobacillus (CMMEF) Alicyclobacillus (CMMEF)



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Microbiology (continued)	Acid and Preservative Resistant Yeast (CMMEF) Aciduric Flat Sour Sporeformers (CMMEF) Aerobic Mesophilic Microorganisms (CMMEF) Aerobic Mesophilic Spores (CMMEF) Anaerobic Mesophilic Spores (CMMEF) Anaerobic Plate Count (CMMEF) Anaerobic Sulfite Reducing Bacteria (CMMEF) Guaiacol Producing Bacteria (CMMEF) Heat Resistant Mold (CMMEF) Heat Resistant Spore Formers (Culture) Heterotrophic Plate Count (EPA) Laboratory Pasteurization Count Mesophilic Flat Sours (CMMEF) Osmophilic Mold (CMMEF) Osmophilic Yeast (CMMEF) Preliminary Incubation Count Psychrotrophic Plate Count (CMMEF) Thermophilic Acidophilic Bacteria (CMMEF) Thermophilic Aerobic Spores (CMMEF) Thermophilic Anaerobic Spores (CMMEF) Thermophilic Flat Sours (CMMEF) Thermophilic Plate Count (CMMEF) Total Acidophilic Count (CMMEF) Genista Alicyclobacillus acidoterrestris (Real-Time PCR) Genista Bacillus spp. (Real-Time PCR) Genista Bacillus subtilis (Real-Time PCR) Genista Clostridium Perfringens (Real-Time PCR) Coliform (MPN) (FDA BAM) Genista Cronobacter sakazakii (Real-Time PCR) Genista Cronobacter spp. (Real-Time PCR) Genista Cryptosporidium spp. (Real-Time PCR) E.coli (MPN) (FDA BAM) Genista Enterobacter sakazakii (Real-Time PCR) Enterobacteriaceae (AOAC) Genista Enterococcus spp. (Real-Time PCR) Genista ETEC (Real-Time PCR) Fecal Coliform (FDA BAM) Guaiacol Confirmation Genista Helicobacter Pylori (Real-Time PCR) Heterofermentative Lactobacillus (AOAC) Howard Mold Count (CMMEF) Lactobacillus spp. (CMMEF) Genista Serratia spp. (Real-Time PCR) Genista Staphylococcus spp. (Real-Time PCR) Genista Streptococcus spp. (Real-Time PCR) Genista Vibrio parahaemolyticus (Real-Time PCR)



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Microbiology (continued)	Genista Vibrio spp. (Real-Time PCR) Genista Yersinia spp. (Real-Time PCR)
GMO	Genista GMO Bt-Corn (Real-Time PCR); Genista GMO Roundup-Ready Maize (Real-Time PCR); Genista GMO Roundup-Ready Soy (Real-Time PCR); Genista GMO- Screening Test (Real-Time PCR); Genista GMO-Alfalfa (Real-Time PCR); Genista GMO-Beet (Real-Time PCR); Genista GMO-Canola (Real-Time PCR); Genista GMO-Papaya (Real-Time PCR); Genista GMO-Potato (Real-Time PCR); Genista GMO-Rice (Real-Time PCR); Genista GMO-Squash (Real-Time PCR); Genista GMO-Wheat (Real-Time PCR); Genista Qualitative GMO (Real-Time PCR); Genista Quantitative GMO (Real-Time PCR) Genista Cotton (Real-Time PCR) Genista Apple (Real-Time PCR) Genista Tomato (Real-Time PCR)
Allergen	Genista Almond-Allergen (Real-Time PCR); Genista Anchovy-Allergen (Real-Time PCR); Genista Cashew-Allergen (Real-Time PCR); Genista Coconut-Allergen (Real-Time PCR); Egg-Allergen (ELISA); Genista Fish-Allergen (Real-Time PCR); Gliadin (ELISA); Gluten (ELISA); Genista Hazelnut-Allergen (Real-Time PCR); Milk-Allergen (ELISA); Genista Mustard-Allergen (Real-Time PCR); Peanut-Allergen (ELISA); Genista Pecan-Allergen (Real-Time PCR); Genista Pine Nut-Allergen (Real-Time PCR); Genista Pistachio-Allergen (Real-Time PCR); Genista Sesame-Allergen (Real-Time PCR); Genista Shelfish-Allergen (Real-Time PCR); Genista Soybean-Allergen (Real-Time PCR); Genista Walnut-Allergen (Real-Time PCR); Genista Wheat-Allergen (Real-Time PCR) Walnut (ELISA) Treenut (ELISA)
Chemistry	Aflatoxin Brix Free Fatty Acids Moisture Content Peroxide Value Salt Content



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Chemistry (continued)	Total Solids Water Activity Water Phase Salt Content Acid Insoluble Ash Acid Soluble Ash Acrylamide Aflatoxin (B1, B2, G1, G2) (HPLC) Aflatoxin M1 (HPLC) Ash Fat Chloride Lactose Moisture By Vacuum Oven** Pectin Salt by Silver Nitrate by Titration** Titratable Acidity Acid Value Carbohydrates Insoluble Fiber Soluble Fiber Sulfates Sulfites Total Fiber Calories Deoxynivalenol (DON) (HPLC) Humidity Nitrate Nitrite Ochratoxin A (HPLC) Total Polyphenols (Gallic Acid Equivalents) Zearalenone (HPLC) pH Patulin (HPLC) Protein
Metals	Aluminum (ICP-MS) Antimony (ICP-MS) Arsenic (ICP-MS) Barium (ICP-MS) Boron (ICP-MS) Cadmium (ICP-MS) Calcium (ICP-MS) Chromium (ICP-MS) Copper (ICP-MS) Iron (ICP-MS) Lead (ICP-MS) Magnesium (ICP-MS) Manganese (ICP-MS)



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Metals (continued)	Mercury (ICP-MS) Nickel (ICP-MS) Phosphorus (ICP-MS) Phosphorus (ICP-MS) Potassium (ICP-MS) Potassium (ICP-MS) Selenium (ICP-MS) Selenium (ICP-MS) Silver (ICP-MS) Sodium (ICP-MS) Thallium (ICP-MS) Tin (ICP-MS) Zinc (ICP-MS)
Pesticides	Glyphosate (AOAC 2007.1) Pesticides (Multi Residue Screen) (AOAC 2007.1) Comprehensive Pesticide Residue Analysis (AOAC 2007.1) Pesticide Residue Analysis (AOAC 2007.1) Pesticides-Fruit Profile (AOAC 2007.1) Pesticides-NOP (AOAC 2007.1)