



CERTIFICATE OF ACCREDITATION

This is to attest that

GENISTA BIOSCIENCES, LLC

5500 HELLYER AVENUE, SUITE 150
SAN JOSE, CALIFORNIA 95138, U.S.A.

Testing Laboratory TL-480

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date May 27, 2021



A handwritten signature in black ink that reads "Raj Nathan".

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

GENISTA BIOSCIENCES, LLC

www.genistabio.com

Contact Name Dr. Kumar Kastury

Contact Phone +1-408-375-8356

Accredited to ISO/IEC 17025:2017

Effective Date May 27, 2021

FIELDS OF TESTING	ACCREDITED TEST METHODS
Microbiology	
CMMEF 5 th Ed Chp 25 (PCR)	Alicyclobacillus spp (Real-Time PCR);
FDA BAM Chp 14 (PCR)	Bacillus cereus (Real-Time PCR);
FDA BAM Chp 7 (PCR) AOAC 012101	Campylobacter coli (Real-Time PCR);
FDA BAM Chp 7 (PCR) AOAC 012101	Campylobacter jejuni (Real-Time PCR);
FDA BAM Chp 7 (PCR) AOAC 012101	Campylobacter lari (Real-Time PCR);
FDA BAM Chp 7 (PCR) AOAC 012101	Campylobacter spp.(Real-Time PCR);
FDA BAM Chp 7 (PCR) AOAC 012101	Campylobacter upsaliensis (Real-Time PCR);
FDA BAM Chp 17 (PCR)	Clostridium botulinum (Real-Time PCR);
FDA BAM Chp 16 (PCR)	Clostridium difficile (Real-Time PCR);
FDA BAM Chp 16 (PCR)	Clostridium spp. (Real-Time PCR);
FDA BAM Chp 4 AOAC 991.14	Coliform
FDA BAM Chp 4 (PCR) AOAC 991.14	E. coli (Real-Time PCR);
FDA BAM Chp 4A (PCR) AOAC 012102	E. coli O104:H4 (Real-Time PCR);
FDA BAM Chp 4A (PCR) AOAC 021501 ISO 13136:2012	E. coli O157:H7 (Real-Time PCR);
FDA BAM Chp 4A (Includes stx1, stx2 and eae) (PCR)	EHEC (Real-Time PCR);
FDA BAM Chp 26B (PCR) ISO 15216-1	Hepatitis A (Real-Time PCR);
AOAC 041701 CMMEF 5 th Ed Chp 20	Hetero. Lactic Acid Bacteria
AOAC 041701 CMMEF 5 th Ed Chp 20	Lactic Acid Bacteria

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FIELDS OF TESTING	ACCREDITED TEST METHODS
FDA BAM Chp 10 (PCR) AOAC 061302	Listeria monocytogenes (Real-Time PCR)
FDA BAM Chp 10 (PCR) AOAC 071304	Listeria spp. (Real-Time PCR)
CMMEF 5 th Ed Chp 47	Propionic Acid Bacteria (Real-Time PCR)
CMMEF	Pseudomonas aeruginosa (Real-Time PCR)
CMMEF	Pseudomonas spp. (Real-Time PCR)
FDA BAM Chp 5:2007 (PCR)	Salmonella enterica (Real-Time PCR)
FDA BAM Chp 5:2007 (PCR) AOAC 051303	Salmonella spp. (Real-Time PCR)
FDA BAM Chp 6 (PCR)	Shigella spp. (Real-Time PCR);
SMEDP	Somatic Cell Count (Real-Time PCR);
AOAC 988.18 AOAC 996.23 AOAC 2015.13	Standard Plate Count (Real-Time PCR)
FDA BAM Chp 12 (PCR)	Staphylococcus aureus (Real-Time PCR);
FDA BAM Chp 12 & 13B (PCR) AOAC 052101	Staphylococcus enterotoxin (Real-Time PCR);
PCR (BAM Chp 4A) Includes O26, O45, O103, O111, O113, O121, and O145 (PCR)	STEC (Real-Time PCR);
FDA BAM Chp 18 Real-Time PCR AOAC 997.02 AOAC 2014.05	Yeast and Mold (Real-Time PCR)
IFU No. 12	Alicyclobacillus spp.
CMMEF 5 th Ed Chp 25 (YSG-Agar) CMMEF 5 th Ed Chp 25 (K-Agar)	Alicyclobacillus
CMMEF 5 th Ed Chp 21 ISO 21527	Acid and Preservative Resistant Yeast
CMMEF 5 th Ed Chp 25	Aciduric Flat Sour Sporeformers
CMMEF 5 th Ed Chp 8	Aerobic Mesophilic Microorganisms
CMMEF 5 th Ed Chp 23	Aerobic Mesophilic Spores
CMMEF 5 th Ed Chp 24	Anaerobic Mesophilic Spores
CMMEF 5 th Ed Chp 6 & 24	Anaerobic Plate Count
CMMEF 5 th Ed Chp 28	Anaerobic Sulfite Reducing Bacteria
CMMEF 5 th Ed Chp 25 IFU No. 12	Guaiacol Producing Bacteria
CMMEF 5 th Ed Chp 22	Heat Resistant Mold
CMMEF 5 th Ed Chp 26	Heat Resistant Spore Formers

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FIELDS OF TESTING	ACCREDITED TEST METHODS
AOAC 988.18 EPA 9215	Heterotrophic Plate Count
CMMEF SMEDP	Laboratory Pasteurization Count
CMMEF 5 th Ed Chp 23	Mesophilic Flat Sours
CMMEF 5 th Ed Chp 17	Osmophilic Mold
CMMEF 5 th Ed Chp 17	Osmophilic Yeast
CMMEF SMEDP	Preliminary Incubation Count
CMMEF 5 th Ed Chp 13	Psychrotropic Plate Count
CMMEF 5 th Ed Chp 25 IFU No. 12	Thermophilic Acidophilic Bacteria
CMMEF 5 th Ed Chp 26	Thermophilic Aerobic Spores (CMMEF)
CMMEF 5 th Ed Chp 27	Thermophilic Anaerobic Spores (CMMEF)
CMMEF 5 th Ed Chp 26	Thermophilic Flat Sours (CMMEF)
AOAC 988.18 CMMEF 5 th Ed Chp 14	Thermophilic Plate Count (CMMEF)
CMMEF 5 th Ed Chp 19	Total Acidophilic Count (CMMEF)
CMMEF 5 th Ed Chp 25	<i>Alicyclobacillus acidoterrestris</i> (Real-Time PCR)
CMMEF	<i>Bacillus</i> spp. (Real-Time PCR)
CMMEF	<i>Bacillus subtilis</i> (Real-Time PCR)
FDA BAM Chp 16 (PCR)	<i>Clostridium Perfringens</i> (Real-Time PCR)
FDA BAM Chp 4	Coliform (MPN)
FDA BAM Chp 29 (PCR)	<i>Cronobacter sakazakii</i> (Real-Time PCR)
FDA BAM Chp 29 (PCR)	<i>Cronobacter</i> spp. (Real-Time PCR)
FDA BAM Chp 19A (PCR)	<i>Cryptosporidium</i> spp. (Real-Time PCR)
FDA BAM Chp 4	<i>E.coli</i> (MPN)
FDA BAM Chp 29 (PCR)	<i>Enterobacter sakazakii</i> (Real-Time PCR)
AOAC 2003.01 CMMEF 5 th Ed Chp 9	Enterobacteriaceae
CMMEF	<i>Enterococcus</i> spp. (Real-Time PCR)
FDA BAM Chp 4A (PCR)	ETEC (Real-Time PCR)
FDA BAM Chp 4	Fecal Coliform
CMMEF 5 th Ed Chp 25 IFU No. 12	Guaiacol Confirmation
Real-Time PCR	<i>Helicobacter Pylori</i> (Real-Time PCR)
AOAC 041701 CMMEF 5 th Ed Chp 20	Heterofermentative <i>Lactobacillus</i>

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FIELDS OF TESTING	ACCREDITED TEST METHODS
AOAC 982.33 CMMEF 5 th Ed Chp 4	Howard Mold Count
AOAC 041701 CMMEF 5 th Ed Chp 20	Lactobacillus spp. (CMMEF)
CMMEF	Serratia spp. (Real-Time PCR)
FDA BAM Chp 12 (PCR)	Staphylococcus spp. (Real-Time PCR)
Real-Time PCR	Streptococcus spp. (Real-Time PCR)
FDA BAM Chp 9 (PCR)	Vibrio parahaemolyticus (Real-Time PCR)
FDA BAM Chp 9	Vibrio spp. (Real-Time PCR)
CMMEF	Yersinia spp. (Real-Time PCR)
FDA BAM Chp 26B (PCR)	Norovirus (Real-time PCR)
GMO (Real-Time PCR)	
ISO 21570	Bt-Corn
ISO 21570	Roundup-Ready Maize
ISO 21570	Roundup-Ready Soy
ISO 21570	Alfalfa
ISO 21570	Beet
ISO 21570	Canola
ISO 21570	Papaya
ISO 21570	Potato
ISO 21570	Rice
ISO 21570	Squash
ISO 21570	Wheat
ISO 21570	Qualitative GMO Screen
ISO 21570	Quantitative GMO Screen
ISO 21570	Cotton
ISO 21570	Apple
ISO 21570	Tomato
Allergens	
ELISA	Almond (ELISA)
ELISA	Anchovy (ELISA)
ELISA	Cashew (ELISA)
ELISA	Coconut (ELISA)

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FIELDS OF TESTING	ACCREDITED TEST METHODS
ELISA	Egg (ELISA)
ELISA	Fish (ELISA)
AOAC 2014.03	Gliadin (ELISA)
AOAC 061201	Gluten (ELISA)
ELISA	Hazelnut (ELISA)
ELISA	Milk (ELISA)
ELISA	Mustard (ELISA)
ELISA	Peanut (ELISA)
ELISA	Pecan (ELISA)
ELISA	Pine Nut (ELISA)
ELISA	Pistachio (ELISA)
ELISA	Sesame (ELISA)
ELISA	Shellfish (ELISA)
ELISA	Soybean (ELISA)
ELISA	Walnut (ELISA)
ELISA	Wheat (ELISA)
ELISA	Treenut (ELISA)
Chemistry – Organic	
AOAC 2005.08 USDA	Aflatoxin
AOAC 940.28	Free Fatty Acids
FDA	Acrylamide (LC-MS/MS)
AOAC 2005.08	Aflatoxin (B1, B2, G1, G2) (HPLC)
AOAC 980.21	Aflatoxin M1 (HPLC)
AOAC 995.15	Fumonisin (HPLC)
LC-MS/MS	HT-2 Toxin (LC-MS/MS)
LC-MS/MS	T-2 Toxin (LC-MS/MS)
AOAC 2020.07	Carbohydrates
AOAC 986.17	Deoxynivalenol (DON) (HPLC)
AOAC 2000.03	Ochratoxin A (HPLC)
HPLC	Total Polyphenols (Gallic Acid Equivalents)
AOAC 985.18	Zearalenone (HPLC)
AOAC 996.06 AOCS Ce 1h-05	Fatty Acid Profile

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FIELDS OF TESTING	ACCREDITED TEST METHODS
GC-MS/MS	Smoke Taint Markers (GC-MS/MS)
HPLC	Punicaligans (HPLC)
HPLC	Ellagic Acid (HPLC)
AOAC 995.03 ASTA 21.0	Scoville Heat Units (HPLC)
AOAC 2007.01	Glufonisate (LC-MS/MS)
AOAC 995.10 AOAC 2000.02	Patulin (HPLC/LC-MS/MS)
AOAC 986.13 (Modified)	Organic Acids (HPLC)
USDA	Sorbic Acid (HPLC)
USDA	Benzoic Acid (HPLC)
LC-MS/MS	Sudan Dyes and Para-Red (LC-MS/MS)
Chemistry – Pesticides	
AOAC 2007.01	Glyphosate (AOAC 2007.1)
AOAC 2007.01	Pesticides (Multi Residue Screen) (AOAC 2007.1)
AOAC 2007.01	Comprehensive Pesticide Residue Analysis (AOAC 2007.1)
AOAC 2007.01	Pesticide Residue Analysis (AOAC 2007.1)
AOAC 2007.01	Pesticides-Fruit Profile (AOAC 2007.1)
AOAC 2007.01	Pesticides-NOP (AOAC 2007.1)
USP<561>	Pesticides (USP-561)
Chemistry – Inorganics	
AOAC 942.15	Titrateable Acidity
AOAC 969.17 AOCS Cd 3d-63	Acid Value
AOAC 935.38 IC-MS	Chloride
AOAC 993.03 (Modified)	Nitrite
AOAC 993.03 (Modified)	Nitrate
HPLC	Sulfates
AOAC 990.28	Sulfites
AOAC 943.02	pH
AOAC 992.15	Protein
AOAC 932.12	Brix
AOAC (Multiple)	Moisture Content
AOAC 965.33	Peroxide Value
AOAC 915.01	Salt Content

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FIELDS OF TESTING	ACCREDITED TEST METHODS
AOAC 925.09	Total Solids
AOAC 978.18	Water Activity
AOAC (Multiple)	Water Phase Salt Content
AOAC (Multiple)	Acid Insoluble Ash
AOAC (Multiple)	Acid Soluble Ash
AOAC 985.29	Insoluble Fiber
AOAC 985.29	Soluble Fiber
AOAC 985.29	Total Fiber
AOAC (Multiple)	Ash
AOAC 935.38	Fat
AOAC (Multiple)	Calories
AOAC 978.18	Humidity
AOAC 935.38	Salt by Silver Nitrate by Titration
AOAC 2006.06	Lactose
AOAC 925.45	Moisture By Vacuum Oven
UV-Spectroscopy	Pectin
AOAC 2015.01	Metals by ICP-MS: Aluminum, Antimony, Arsenic, Barium, Boron, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Zinc