CERTIFICATE OF ACCREDITATION

This is to attest

AGQ COSTA RICA S.A.

50 MTS NORTE Y 75 MTS OESTE DE LA ESCUELA REPÚBLICA DOMINICANA
SAN FRANCISCO DE DOS RÍOS, SAN JOSÉ, 10106, COSTA RICA

Testing Laboratory TL-1036

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 June 29, 2026

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SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017 *Effective Date June 29, 2026*

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOOD– MICROBIOLOGY	Food, feed and surfaces	Escherichia coli	IT-345 AOAC 991.14, AOAC 998.08, AOAC 986.33, AOAC 989.10.
		Total coliforms	IT-345 AOAC 991.14, AOAC 998.08, AOAC 986.33, AOAC 989.10.
		Fecal coliforms	IT-345 AFNOR 3M01/2-09/89C.
		Staphylococcus aureus	IT-343 AOAC 2003.07, AOAC 2003.08, AOAC 2003.11.
		Aerobic plate count	IT-344 AOAC 990.12.
		Yeast and molds	IT-342 AOAC 997.02.
	Broad range of foods; environmental samples (food or feed production); pet food and animal feed	Listeria spp. & Listeria monocytogenes	IT-480 iQ-Check Listeria spp. Real-Time PCR & iQ-Check Listeria monocytogenes II / Real-Time PCR
	Broad range of foods; environmental samples (food or feed production); pet food and animal feed	Salmonella	IT-481 iQ-Check Salmonella / Real-Time PCR
	Broad range of foods; environmental samples (food or feed production); pet food and animal feed.	E. coli O157:H7	IT-482 iQ-Check E. coli O157:H7 / Real-Time PCR
	Broad range of foods; environmental samples (food or feed production); pet food and animal feed.	Yeast, mold and Sum of yeast & mold	IT-488 AOAC 2014.05 y AOAC 966.23 / Petrifilm® Rapid

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
	Granular and liquid sugar. -OR- Granular and liquid sucrose and treated simple syrup.	Mesophilic Total Count	IT-416 ICUMSA GS2/3-41.
		Yeast and Mold	IT-415 ICUMSA GS 2/3-47.
		Thermophilic Acidophilic Bacteria (TAB) & Guaiacol Producing TAB	IT-417 SM-PR-687.
FOOD–INORGANIC	Food, feed	Ash	IT-328 Based on ISO 936, AOAC 942.05
		Moisture	IT-333 Based on AOAC 925.45 & ISO 1442
		Crude Protein	IT-335 Based on AOAC 990.3, AOAC 992.15
		Protein (Nitrogen Kjeldahl)	IT-464 Based on: AOAC 2001.11 / Kjeldahl-volumetry
		Total Fat	IT-332 Based on ISO 1443, AOAC 905.02 Fat in milk Roese-Gottlieb Method & AOAC 922.06 Fat in flour
		Total sugar	IT-327 Based on BOE- A -1979-21118
		Carbohydrates (US & EU) – by calculation	IT-414 (EU) No1169/2011 UE, Food labeling guide FDA - Carbohydrates (US) and (EU)
		Energy (Calories and kilojoules) (US, EU and MX) - by calculation	IT-414 Based on (EU) No1169/2011 EU, Food labeling guide FDA
		Nutritional and heavy metals: Na, Mg, Al, P, K, Ca, Cr, Mn, Fe, Ni, Cu, Zn, Se, Sn, As, Cd, Hg, Pb	IT-334 Metals by ICP-MS Based on AOAC Official Method 2015.01 Heavy Metals in Food, Codex Alimentarius CAC/GL 41, Codex Alimentarius Stan 193-1995, Elemental analysis manual for food and related products, FDA (2021)
	Granular and liquid sugar. -OR- Granular and liquid sucrose and treated simple syrup.	Chloride	IT-418 In-house method based on: EPA Method 300.1 Ion Chromatography with Suppression of Eluent Conductivity
		Sensory analysis (Appearance, Odor, Odor after acidification, taste)	IT-419 SM-PR-420 Nutritive Sweetener Sensory Evaluation
		Assay (Purity)	IT-420 ICUMSA by Calculated impurity

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOOD–INORGANIC (cont'd.)	Granular and liquid sugar. -OR- Granular and liquid sucrose and treated simple syrup. (cont'd.)	Quaternary Ammonium Compounds (QAC)	IT-427 SM-PR-470 by spectrophotometry
		Moisture by Loss on Drying	IT-426 ICUMSA GS 2-15 (2007)
		Day Acid Beverage Floc Test	IT-424 ICUMSA GS40 (2011)
		Insoluble Matter	IT-428 ICUMSA GS2-19 (2007)
		Reducing Sugars	IT-425 ICUMSA GS2-5(2011) by the Knight and Allen EDTA Method
		Colour	IT-423 ICUMSA GS 2-10 (2011)
		Turbidity	IT-430 ICUMSA GS 2-18 (2013)
		Conductivity Ash	IT-421 ICUMSA GS2-17 (2011)
		Refractometric Dry Substance (Degrees Brix)	IT-422 ICUMSA GS 4-13 (2009)
		Sulphite	IT-429 ICUMSA GS 2-33 (2011) by the Rosaniline Colorimetric Method
	Food	Gluten (as gliadin R5)	IT-462 Based on: AOAC 2012.01 / ELISA
FOOD–ORGANIC	Food & Feed	CBD, CBDA, delta-8 THC, delta-9 THC, THCA-A, CBD TOTAL, THC TOTAL	IT-444 Based on: AOAC 2018.10 / HPLC-DAD
		Cholesterol	IT-329 Based on: AOAC official Method 994.10 Cholesterol in Foods. / GC-FID
		Butyric acid (C4:0), Caproic acid (C6:0) Caprylic acid (C8:0), Capric acid (C10:0), Undecanoic acid (C11:0), Lauric acid (C12:0), Tridecanoic acid (C13:0), Myristic acid (C14:0), Myristoleic acid (C14:1 w5), Pentadecanoic acid (C15:0), Pentadecenoic acid (C15:1 w5), Palmitic acid (C16:0), Palmitoleic acid (C16:1 w7), Margaric acid (C17:0),	IT-485 Based on: International Olive Council (2017). Determination of fatty acid methyl esters by gas chromatography. COI/T.20/Doc. No. 33. Rev. 1./ Agilent Technologies (2023). Application Note: Improving the Analysis of 37 Fatty Acid Methyl Esters/Cert et al. (2000). "Methods of preparation of fatty acid methyl esters (FAME).

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
FOOD–ORGANIC (cont'd.)	Food & Feed (cont'd.)	Margaroleic acid (C17:1 w7), Stearic acid (C18:0), Elaidic acid (C18:1 trans), Oleic acid (C18:1 cis w9), Linolelaidic acid (C18:2 trans), Linoleic acid (C18:2 cis w6), Arachidic acid (C20:0), Gamma Linolenic acid (C18:3 w6), Gadoleic acid (C20:1 w9), Alpha Linolenic acid (C18:3 w3 ALA), Heneicosanoic acid (C21:0), Eicosadienoic acid (C20:2 w6), Behenic acid (C22:0), Dihomo-Gamma-Linolenic acid (C20:3 w6), Erucic acid (C22:1 w9), Eicosatrienoic acid (C20:3 w3), Arachidonic acid (C20:4 w6), Tricosenoic acid (C23:0), Docosadienoic acid (C22:2 w6), Lignoceric acid (C24:0), Eicosapentaenoic acid (C20:5 w3 EPA), Nervonic acid (C24:1 w9), Docosahexaenoic acid (C22:6 w3 DHA), Sum of Saturated Fatty Acids, Sum of Polyunsaturated Fatty Acids, Sum of Monounsaturated Fatty Acids, Omega 3, Omega 6, Omega 9	Statistical evaluation of the accuracy of the method through a collaborative study". Fats and Oils, 51(6), 447-456. / GC-FID
PRODUCTS-ORGANIC	Cosmetics, Dietary Supplements, Hygienic Products	CBD, CBDA, delta-8 THC, delta-9 THC, THCA-A, CBD TOTAL, THC TOTAL	IT-444 Based on: AOAC 2018.10 / HPLC-DAD
ENVIRONMENTAL–INORGANIC	Ground waters, surface waters, drinking waters, wastewaters, seawaters	Metals: Al, Sb, As, Ba, B, Ca, Cd, Cr, Cu, Pb, Fe, Mg, Mn, Hg, Sn, Ni, Se, Ag, K, Na, V, Zn, Si By calculation: Calcium Hardness, Magnesium Hardness, Total Hardness, Silica	IT-399 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 3125 B.; U.S. EPA Method 6020B (SW-846) and 200.8. / ICP-MS

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL–INORGANIC (cont'd.)	Soils, sediments, sludges and residues	Metals: Al, Sb, As, Ba, B, Ca, Cd, Co,Cr, Cu, Pb, Fe, Mg, Mn, Mo, Hg, Sn, Ni, Se, Ag, K, Na, Tl, V, Zn.	IT-399 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 3125 B.; U.S. EPA Method 6020B (SW-846) and 200.8. / ICP-MS
	Ground waters, surface waters, drinking waters, wastewaters, seawater	Total Suspended Solids	IT-371: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2540 D: Gravimetry
		Total Solids	IT-368: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2540 B: Gravimetry
		Total Dissolved Solids	IT-369: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2540 C Gravimetry
		Settleable Solids	IT-370: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2540 F: Volumetry
		Turbidity	IT-376: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2130 B: Nephelometry
		Anionic surfactants as MBAS	IT-375: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 5540 C: Spectrophotometry
		Apparent and true Color	IT-373-SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2120 B. Color. / Visual comparison
		Electric conductivity	IT-372 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2510 B. Conductivity.
		Biochemical oxygen demand (BOD)	IT-366 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 5210 B 5-day BOD Test.
		Ammonia, Ammoniacal Nitrogen and Ammonium	IT-396 Based on SMEWW-APHA-AWWA-WEF (15th Ed. 1980) 4500 NH3 A. Nitrogen (Ammonia). / U.S. EPA / U.S. EPA Method 350.2: Nitrogen, Ammonia / HACH-Method 8038: Spectrophotometry
		Total and partial Alkalinity, hydroxide alkalinity. Carbonates and Bicarbonates	IT-413 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2320 B. Alkalinity. Tritation Method.

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL–INORGANIC (cont'd.)	Ground waters, surface waters, drinking waters, wastewaters, seawater (cont'd.)	Phenols (Total Phenols)	IT-431SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 5530 A, B and D. / US EPA Method 420.1: Phenolics / Spectrophotometry
		Transmitance 254	IT-439 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 5910 B. UV-Absorbing Organic Constituents. Ultraviolet Absorption
		UV 254	IT-439 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 5910 B. UV-Absorbing Organic Constituents. Ultraviolet Absorption
	Ground waters, surface waters, drinking waters, wastewaters	Sulfates, Chlorides, Bromide, Fluoride, Phosphate, Nitrate, Nitrite	IT-380 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 4110 B / EPA Method 300.0. Ion Chromatography with Chemical Suppression of Eluent Conductivity
	Seawater	Chlorides, Sulfates	IT-380 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 4110 B / EPA Method 300.0. Ion Chromatography with Chemical Suppression of Eluent Conductivity
	Ground waters, surface waters, drinking waters	TOC (USP)	IT-432 USP method 643.
		TOC	IT-432 Based on: HACH method 10129
	Ground waters, surface waters, wastewaters, seawater	Total Chemical Oxygen Demand (COD) & Dissolved Chemical Oxygen Demand (COD)	IT-367: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 5220 D: Closed reflux, colorimetry
		Oils & Grease	IT-374: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 5520 B: Liquid-Liquid partition-Gravimetry
	Wastewaters	Spectrophotometric color (Purity)	IT-373 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2120 D. Spectrophotometry

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL–INORGANIC (cont'd.)	Ground waters, surface waters, drinking waters, wastewaters, seawater, soils, sediments	Total Petroleum Hydrocarbons (TPH): - Gasoline Range Organics (GRO) >C5-C10 - Diesel Range Organics (DRO) >C10-C28 - Oil Range Organics (ORO) >C28-C40 - Sum of fractions Gasoline Range Organics (GRO) >C5-C10, Diesel Range Organics (DRO) >C10-C28 and Oil Range Organics (ORO) >C28-C40; and any possible subfractions between >C5-C40 including kerosene organic range, jet fuel organic range and bunker organic range	IT-381 U.S. EPA Method 8015C Gravimetric / GC-FID / GC-MS
	Ground waters, surface waters, drinking waters, wastewaters, seawater	Emulsifiable Hydrocarbons Non- emulsifiable Hydrocarbons emulsifiable and Non- emulsifiable Total Petroleum Hydrocarbons	IT-381 U.S. EPA Method 8015C Gravimetric / GC-FID / GC-MS
	Surface water, ground water, soils	Total Petroleum Hydrocarbons (TPH): Heavy Oil Range Organics (HORO) >C40–C44 Sum of fractions: Sum of fractions Gasoline Range Organics (GRO) >C5- C10, Diesel Range Organics (DRO) >C10-C28, Oil Range Organics (ORO) >C28-C40 and Heavy Oil Range Organics (HORO) >C40–C44; including any possible subfractions between >C5–C44 including kerosene organic range, jet fuel organic range, and bunker organic range.	IT-381. Inhouse method based on: U.S. EPA Method 8015C Gravimetric / GC-FID / GC-MS

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL–INORGANIC (cont'd.)	Surface water, ground water, soils	Total Petroleum Hydrocarbons (TPH): - Heavy Oil Range Organics (HORO) >C40-C44	IT-381. Inhouse method based on: U.S. EPA Method 8015C Gravimetric / GC-FID
	Sludges and soils	Moisture (Loss on drying)	IT-478 Based on Moisture Analyzers Users Handbook, A&D Company (2009) / Procedural Guide for Moisture Analysis, Adam Equipment / Thermogravimetric
	Sludges	pH	IT-477 Based on: 9045 D. U.S. EPA Method Soil and Waste pH / Electrometry
ENVIRONMENTAL–INORGANIC Field sampling and Monitoring	Ground waters, surface waters, drinking waters, wastewaters, seawater	Sampling (Grab and composite):	PICR-211: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 1060 A, B y C: Collection and Preservation of Samples
		pH	IT-378: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 4500 H+ B: Electrometry
		Temperature	IT-377: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 2550
ENVIRONMENTAL–MICROBIOLOGY	Recreational waters, drinking waters	Fecal Coliforms, Total Coliforms, Escherichia coli	IT-340 Based on SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 9222 Membrane Filter Technique; ISO 9308-1:2014 Water quality — Enumeration of Escherichia coli and coliform bacteria
		Staphylococcus aureus	IT-483 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 9213-B / Membrane filter
	Recreational waters	Fecal streptococcus	IT-484 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 9230-C / Membrane filter
	Ground waters, surface waters, drinking waters, wastewaters, seawater	Total heterotroph count	IT-338 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 9215 B. Heterotrophic Plate Count

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL–MICROBIOLOGY (cont'd.)	Ground waters, surface waters, drinking waters, recreational waters	Pseudomonas	IT-339 SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 9213 E by Membrane Filtration.
ENVIRONMENTAL–SAMPLING **ENVIRONMENTAL–SAMPLING** (cont'd.)	Soil, Sediment, Sludge (Biosolids) Soil, Sediment, Sludge (Biosolids) (cont'd.)	Chemistry and Microbiology parameters	PICR-211. Based on: U.S. EPA. Soil Sampling. Laboratory Services and Applied Science Division. Athens, Georgia, 2020 U.S. EPA. Sediment Sampling. Laboratory Services and Applied Science Division. Athens, Georgia, 2020. U.S. Environmental Protection Agency. POTW Sludge Sampling and Analysis Guidance Document EPA 833-B-89-100, 1989
FOOD–SAMPLING	Food, Feed, Surfaces	Microbiology parameters	PICR-212: ISO 18593:2018, BAM Cap1, CODEX-ALIMENTARIUS
ENVIRONMENTAL–ORGANIC	Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments	Volatile organic compounds (VOCs) 1,1,1,2-tetrachloroethane 1,1,1-trichloroethane 1,1,2,2-tetrachloroethane 1,1,2-trichloroethane 1,1-dichloroethane 1,1-dichloroethylene 1,1-dichloropropylene 1,2,3-trichlorobenzene 1,2,3-trichloropropane 1,2,4-trichlorobenzene 1,2,4-trimethylbenzene 1,2-dibromo-3-chloropropane 1,2-dibromoethane 1,2-dichlorobenzene 1,2-dichloroethane 1,2-dichloropropane 1,3,5-trimethylbenzene 1,3-dichlorobenzene 1,3-dichloropropane 1,4-dichlorobenzene 2,2-dichloropropane 2-chlorotoluene 4-chlorotoluene 4-isopropyltoluene	IT-383. Based on US EPA Method 8260D (GC/MS)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL–ORGANIC (cont'd.)	Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments (cont'd.)	Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Carbon Tetrachloride Chlorobenzene Chloroform Cis-1,2-dichloroethylene Dibromochloromethane Dibromomethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl T-butyl Ether m,p-xylene Naphthalene N-butylbenzene N-propylbenzene o-xylene Sec-butylbenzene Styrene Tert-butylbenzene Tetrachloroethylene Toluene Trans-1,2-dichloroethylene Trichloroethylene Ethanol Sum of Xylenes (Total Xylenes) Sum of BTEX (Total BTEX) Sum of Trihalomethanes (Total THM) Sum of VOCs (Total VOCs)	IT-383. Based on US EPA Method 8260D (GC/MS) (cont'd.)
		Polycyclic aromatic hydrocarbons (PAHs) Acenaphthene Acenaphthylene Anthracene Benz(a)anthracene Benz[a]pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene	IT-382 Based on: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 6440 Polynuclear Aromatic Hydrocarbons / US EPA Method 8270E (SW-846 GC/MS-MS)

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL–ORGANIC (cont'd.)	Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments (cont'd.)	Indeno(1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene Sum of HAPs (Total HAPs)	IT-382 Based on: SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 6440 Polynuclear Aromatic Hydrocarbons / US EPA Method 8270E (SW-846 GC/MS-MS) (cont'd.)
		Pesticides residues (PRs) Sum of Organochlorines (Total Organochlorines) Sum of Organophosphates (Total Organophosphates) Sum of Carbamates (Total Carbamates) Sum of Pesticides Residues (Total Pesticides Residues)	IT-447 Based on US EPA Method 8270E (SW-846 GC/MS-MS) / SMEWW-APHA-AWWA-WEF (24th Ed. 2023) 6630C y 6410B (GC-MS-MS)
	Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments, sludges and residues	Polychlorinated biphenyls (PCBs) (PCB-180) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB-138) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB-153) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-101) 2,2',4,5,5'-Pentachlorobiphenyl (PCB-52) 2,2',5,5'-Tetrachlorobiphenyl (PCB-118) 2,3',4,4',5-Pentachlorobiphenyl (PCB-28) 2,4,4'-Trichlorobiphenyl Sum of PCBs (Total PCBs)	IT-446 Based on: US EPA Method 8082A (GC/MS-MS)