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CERTIFICATE OF ACCREDITATION

This is to attest that

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, REPUBLIC OF 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 May 22, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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AGQ COSTA RICA S.A.

www.agqlabs.cr

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Accredited to ISO/IEC 17025:2017

Effective Date May 22, 2024

| FIELDS OF TESTING | MATERIAL/ MATRIX | DETERMINANT(S)/ ANALYTE(S) | METHOD REFERENCE |
|-------------------|---|--|---|
| FOOD-MICROBIOLOGY | Food, feed and surfaces | Escherichia coli | AOAC 991.14, AOAC 998.08, AOAC 986.33, AOAC 989.10 (IT-345) |
| | | Total coliforms | AOAC 991.14, AOAC 998.08, AOAC 986.33, AOAC 989.10 (IT-345) |
| | | Fecal coliforms | AFNOR 3M01/2-09/89C (IT-345) |
| | | Staphylococcus aureus | AOAC 2003.07, AOAC 2003.08, AOAC 2003.11 (IT-343) |
| | | Aerobic plate count | AOAC 990.12 (IT-344) |
| | | Yeast and molds | AOAC 997.02 (IT-342) |
| | | Salmonella spp. | Vidas ® UP Salmonella SPT (IT-392) |
| | | Listeria spp. Listeria monocytogenes | Vidas ® UP Listeria LPT (IT-393) |
| | Granular and liquid sugar. -OR- Granular and liquid sucrose and treated simple syrup. | Mesophilic Total Count | ICUMSA GS2/3-41 (IT-416) |
| | | Yeast and Mold | ICUMSA GS 2/3-47(IT-415) |
| | | Thermophilic Acidophilic Bacteria (TAB) & Guaiacol Producing TAB | SM-PR-687 (IT-417) |
| FOOD-INORGANIC | Food, feed | Ash | IT-328 Based on ISO 936, AOAC 942.05 |
| | | Moisture | IT-333 Based on AOAC 925.45 |
| | | Crude Protein | IT-335 Based on AOAC 990.3, AOAC 992.15 |
| | | Total Fat | IT-332 Based on ISO 1443 |
| | | Total dietary fiber | IT-330 Based on AOAC 993.21 |
| | | Total sugar | IT-327 Based on BOE- A - 1979-21118 |

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Page 2 of 9

IAS/TL-Food/100-1



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|------------------------------------|-------------------------|--|---|
| FOOD-INORGANIC (cont'd.) | Food, feed (cont'd.) | 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: Li, Be, B, Na, Mg, Al, Si, P, S, K, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Se, Sr, Mo, Ag, Sn, Sb, Ba, Tl, 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 |
| | | CBD, CBDA, delta-8 THC, delta-9 THC, THCA-A, CBD TOTAL, THC TOTAL | IT-444 Based on: AOAC 2018.10 / HPLC-DAD |
| | | Granular and liquid sugar. -OR- Granular and liquid sucrose and treated simple syrup. | Chloride |
| | | Sensory analysis (Appearance, Odor, Odor after acidification, taste) | IT-419 SM-PR-420 |
| | | Assay (Purity) | IT-420 |
| | | 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 (RDS %) | IT-422 ICUMSA GS 4-13 (2009) |
| | | Sulphite | IT-429 ICUMSA GS 2-33 (2011) by the Rosaniline Colorimetric Method |

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|---------------------------------|--|--|--|
| FOOD-INORGANIC (cont'd.) | Food | Gluten (as gliadin R5) | IT-462 Based on: AOAC 2012.01 / ELISA |
| 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 By calculation: Calcium Hardness, Magnesium Hardness Total Hardness | IT-399 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 3125 B.; U.S. EPA Method 6020B (SW-846) and 200.8. / ICP-MS |
| | Soils, sediments, sludges and residues | Metals: Al, Sb, As, Ba, B, Ca, Cd, Cr, Cu, Pb, Fe, Mg, Mn, Hg, Sn, Ni, Se, Ag, K, Na, V, Zn. | IT-399 SMEWW-APHA-AWWA-WEF (24 th 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 (24 th Ed. 2023) 2540 D: Gravimetry |
| | | Total Solids | IT-368: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2540 B: Gravimetry |
| | | Total Dissolved Solids | IT-369: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2540 C Gravimetry |
| | | Settleable Solids by | IT-370: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2540 F: Volumetry |
| | | Turbidity | IT-376: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2130 B: Nephelometry |
| | | Anionic surfactants as MBAS | IT-375: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 5540 C: Spectrophotometry |
| | | Sulfide | IT-440 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 4500 Sulfide. / US EPA Methylene Blue Method. / Method 8131.HACH. |
| | | Apparent and true Color | IT-373-SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2120 B. Color. / Visual comparison |
| | | Electric conductivity | IT-372 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2510 B. Conductivity. |

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|---|--|---|---|
| ENVIRONMENTAL-INORGANIC (cont'd.) | Ground waters, surface waters, drinking waters, wastewaters, seawater (cont'd.) | Biochemical oxygen demand (BOD) | IT-366 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 5210 B 5-day BOD Test. |
| | | Ammonia, Ammoniacal Nitrogen and Ammonium | IT-396 Based on SMEWW-APHA-AWWA-WEF (15 th Ed. 1980) 4500 NH3 A. Nitrogen (Ammonia). / U.S. EPA / U.S. EPA Method 350.2: Nitrogen, Ammonia / HACH-Method 8038: Spectrophotometry |
| | | Sulfates, Chlorides, Bromide, Fluoride, Phosphate, Nitrate, Nitrite | IT-380 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 4110 B / EPA Method 300.0. Ion Chromatography with Chemical Suppression of Eluent Conductivity |
| | | Chromium(VI), Cr(VI) | IT-441 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 3500-Cr B. Chromium. Colorimetric Method / 8023: US EPA 1,5-diphenylcarbohydrazide – Spectrophotometry |
| | | Total and partial Alkalinity, hydroxide alkalinity. Carbonates and Bicarbonates | IT-413 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2320 B. Alkalinity. Titration Method. |
| | | Phenols | IT-431SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 5530 A, B and D. / US EPA Method 420.1: Phenolics / Spectrophotometry |
| | | Salinity | IT-438 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2520 B. Salinity. Electrical Conductivity |
| | | Transmittance 254 | IT-439 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 5910 B. UV-Absorbing Organic Constituents. Ultraviolet Absorption |
| | | UV 254 | IT-439 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 5910 B. UV-Absorbing Organic Constituents. Ultraviolet Absorption |

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|--|--|--|--|
| ENVIRONMENTAL-INORGANIC (cont'd.) | Ground waters, surface waters, drinking waters, wastewaters, seawater (cont'd.) | TOC (USP) | USP method 643 (IT-432) |
| | Ground waters, surface waters, wastewaters, seawater | TOC | IT-432 Based on: HACH method 10129 |
| | | Total COD & Dissolved COD | IT-367: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 5220 D: Closed reflux, colorimetry |
| | Wastewaters | Oils & Grease | IT-374: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 5520 B: Liquid-Liquid partition-Gravimetry |
| | | Spectrophotometric color (Purity) | IT-373 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2120 D. Spectrophotometry |
| Ground waters, surface waters, drinking waters, wastewaters, seawater, soils, sediments, sludges | | 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 Emulifiable Hydrocarbons Non-emulifiable Hydrocarbons Emulifiable and Non-emulifiable Total Petroleum Hydrocarbons | IT-381 U.S. EPA Method 8015C Gravimetric / GC-FID / GC-MS |

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| FIELDS OF TESTING | MATERIAL/ MATRIX | DETERMINANT(S)/ ANALYTE(S) | METHOD REFERENCE |
|---|---|--|---|
| ENVIRONMENTAL-INORGANIC Field sampling and Monitoring | Ground waters, surface waters, drinking waters, wastewaters, seawater | Sampling (Grab and composite): | PICR-211: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 1060 A, B y C: Collection and Preservation of Samples |
| | | pH | IT-378: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 4500 H+ B: Electrometry |
| | | Temperature | IT-377: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 2550 |
| ENVIRONMENTAL-MICROBIOLOGY | Recreational waters, ground waters, surface waters, drinking waters | Fecal Coliforms, Total Coliforms, Escherichia coli | IT-340 Based on SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 9222 Membrane Filter Technique; ISO 9308-1:2014 Water quality — Enumeration of Escherichia coli and coliform bacteria |
| | Ground waters, surface waters, drinking waters, wastewaters, seawater | Total heterotroph count | IT-338 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 9215 B. Heterotrophic Plate Count |
| | Ground waters, surface waters, drinking waters, recreational waters | Pseudomonas | IT-339 SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 9213 E by Membrane Filtration. |
| ENVIRONMENTAL-SAMPLING | Soil, Sediment, Sludge (Biosolids) | 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 |

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|------------------------------|--|--|--|
| ENVIRONMENTAL-ORGANIC | Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments, sludges | Volatile organic compounds (VOCs) 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 Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform Carbon Tetrachloride Chlorobenzene Chloroform Cis-1,2-dichloroethylene Dibromochloromethane Dibromomethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl T-butyl Ether M-xylene Naphthalene N-butylbenzene N-propylbenzene O-xylene P-xylene Sec-butylbenzene Styrene Tert-butylbenzene Tetrachloroethylene Toluene Trans-1,2-dichloroethylene Trichloroethylene Ethanol | IT-383. Based on US EPA Method 8260D (GC/MS) IT-383. Based on US EPA Method 8260D (GC/MS) (cont'd.) |
|------------------------------|--|--|--|

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| ENVIRONMENTAL-ORGANIC (cont'd.) | Ground waters, surface waters, drinking waters, wastewaters, seawater, Soils, sediments, sludges (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 Indeno(1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene | IT-382 Based on: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 6440 Polynuclear Aromatic Hydrocarbons / US EPA Method 8270E (SW-846 GC/MS-MS) |
| | Pesticides residues (PRs) | IT-382 Based on: SMEWW-APHA-AWWA-WEF (24 th Ed. 2023) 6440 Polynuclear Aromatic Hydrocarbons / US EPA Method 8270E (SW-846 GC/MS-MS) (cont'd.) | IT-447 Based on US EPA Method 8270E (SW-846 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 | IT-446. Based on: US EPA Method 8082A (GC/MS-MS) |