



CERTIFICATE OF ACCREDITATION

This is to attest that

AGQ USA

2451 EASTMAN AVENUE, SUITE 1
OXNARD, CALIFORNIA 93030, U.S.A.

Testing Laboratory TL-509

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* and 2016 TNI Standard Volume 1: *Management and Technical Requirements for Laboratories Performing Environmental Analysis*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date June 23, 2023



A handwritten signature in black ink, reading "Raj Nathan".

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

AGQ USA

www.agqlabs.us.com

Contact Name Maria Peña

Contact Phone 1-805-981-2972

*Accredited to ISO/IEC 17025:2017 and
2016 TNI Standard Volume 1**

Effective Date June 23, 2023

| FIELDS OF TESTING | MATERIAL/ MATRIX | DETERMINANT(S)/ ANALYTE(S) | METHOD REFERENCE |
|---|-------------------------------|--|---|
| Chemistry –Agriculture | Foliage | Boron, Calcium, Copper, Magnesium, Manganese, Potassium, Sodium, Zinc, Sulfur, Phosphorus and Iron | PECUSA-009 Metals by ICP-OES (Elemental Analysis) |
| | | Total Nitrogen | PECUSA-034 Elemental Analysis (LECO) |
| | Soil Solutions, Water | Calcium, Magnesium, Sodium, Potassium, Iron, Manganese, Copper, Zinc, Sulfur, Phosphorus and Boron | PECUSA-009 Metals by ICP-OES (Elemental Analysis) |
| | | Chlorides, Ammonium, Alkalinity, Total Oxidated Nitrogen | PEUSA-336 Continuous Flow Analysis (CFA) by UV/Vis Spectrophotometry |
| | Soil Solution, Water, Foliage | pH, Electroconductivity | PECUSA-001, PECUSA-002 Analysis by Automatic Titrator (Potentiometric, Conductometric, Volumetric) |
| | Food Chemistry | Fruits, Vegetables, Herbs & Leaves, Nuts, Cereals & Their Flours, Dried Fruit, Oils/fatty Matrices, Wine, Tobacco, Foods | Pesticide Residue |
| Listed in IT-134 GC-MS/MS and IT-136 LC-MS/MS | | | |
| Tomato Products | | Filth | AOAC 955.46 Determination of Filth in Foods |
| Foods | | Glyphosate | PE-681 Glyphosate by LC- MS/MS |
| | | Acrylamide | PE-684 Acrylamide by LC-MS/MS |
| | Vitamin C | PE-540 | |

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

| FIELDS OF TESTING | MATERIAL/MATRIX | DETERMINANT(S)/ANALYTE(S) | METHOD REFERENCE |
|--|--|---|---|
| Food Chemistry (cont'd.) | Foods (cont'd.) | | Vitamin C in Foods by Chromatography HPLC-DAD |
| | | Vitamin D | PE-530 Vitamin D in food using LC-MS/MS chromatography |
| | | Fatty acids | PE-671 Determination of fatty acid methyl esters using gas chromatography-FID (GC-FID) |
| | | Cholesterol | PE-686 Cholesterol in food by GC/FID chromatography |
| | | Fructose Glucose Galactose Sucrose Maltose Lactose | PE-541 Determination of sugar profile in food |
| | | Dietary Fiber | PE-279 Determination of fiber/total dietary fiber by gravimetric method |
| | Food and feed | Proteins | PE-987 Protein determination by elemental analyzer in foods & feed |
| | Water | Glyphosate | PE-679 Glyphosate by LC-MS/MS |
| | Fruits, Vegetables | Patulin | PE-531 Patulin by LC-MS/MS |
| | Fish | Histamine | PE-539 Histamine Determination in Fish by HPLC-UV-DAD |
| Fish, Shrimp | AHD, SEM, AOZ, AMOZ, Chloramphenicol | TI-1126 Nitrofurans by LC-MS/MS | |
| Foods, Food Ingredients and Animal feed | Total fat | PE-356 Total Fat in Foods | |
| Grain Cereals (oats, rice, corn, wheat, etc.), cereal flours, cereal bran, dried fruit, nuts, fruit juices, spices | Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Aflatoxin M1 Ochratoxin A Deoxynivalenol | PE-505 Mycotoxins by LC/MS-MS Chromatography | |

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

| FIELDS OF TESTING | MATERIAL/MATRIX | DETERMINANT(S)/ANALYTE(S) | METHOD REFERENCE |
|-----------------------------|---|---|---|
| Food Chemistry (cont'd.) | Grain Cereals (oats, rice, corn, wheat, etc.), cereal flours, cereal bran, dried fruit, nuts, fruit juices, spices (cont'd.) | Zearalenone Fumonisin B1 Fumonisin B2 Fumonisin B3 T2 toxin TH2 toxin | |
| | Food Meat Fish and Seafood, Fruits, Vegetables and Fruits Juice, Milk and Lactic Derivatives, Cereals and their Flours, Legumes | Total: Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Tin, Zinc | PE-2118 Determination of Total Elements in Foods by Spectroscopy ICP-MS |
| | Water | Total: Aluminum, Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Manganese, Mercury, Molybdenum, Selenium, Sodium, Strontium, Titanium, Vanadium, Zinc | PE-2173 Determination of Total Elements in Water by Spectroscopy ICP-MS |
| | Fruit Juice | Arsenic Speciation | FDA-EAM-4.10-V1.1 High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometric Determination of Arsenic Species in Fruit Juice |
| | Foods | Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Thallium, Zinc | FDA-EAM-4.7-V1.2 Inductively Coupled Plasma-Mass Spectrometric Determination of Arsenic, Cadmium, Chromium, Lead, Mercury, and Other Elements in Food Using Microwave Assisted Digestion |
| | | Moisture | PE-345 Determination of moisture in foods |
| | Food and Feed | Ash | PE-355 Determination of ashes in food and feed by gravimetry |
| | Rice and Rice Products | Arsenic Speciation | FDA-EAM 4.11 V1.1 Arsenic Speciation in Rice and Rice Products Using |

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

| FIELDS OF TESTING | MATERIAL/MATRIX | DETERMINANT(S)/ANALYTE(S) | METHOD REFERENCE |
|-----------------------------|--------------------------------------|--|--|
| Food Chemistry (cont'd.) | Rice and Rice Products (cont'd.) | Arsenic Speciation (cont'd) | High Performance Liquid Chromatography - Inductively Coupled Plasma-Mass Spectrometric Determination |
| | Food, Food Ingredients and beverages | Calcium Iron Potassium Magnesium Zinc Sodium | PE-2116 Metals in foods by Inductive Couple Plasma-Optical Emission Spectrophotometer (ICP-OES) |
| Aquaculture | Aquaculture Products | Sulfonamides | PE-534: Determination and Quantification of Sulfonamides in Aquaculture Products by LC-MS/MS |
| | | Abamectin, Amoxicillin, Ampicillin, Chloramphenicol, Chlortetracycline, Ciprofloxacin, Cloxacillin, Danofloxacin, Dicloxacillin, Difloxacin, Diflubenzuron, Doramectin, Doxycycline, Emamectin, Enrofloxacin, Erythromycin, Florfenicol, Florfenicol Amine, Flumequine, Ivermectin, Nalidixic Acid, Norfloxacin, Oxolinic Acid, Oxytetracycline, Penicillin, Sarafloxacin, Spiramycin, Tetracycline, Thiamphenicol, Trimethoprim | PE-533: Identification and Quantitation of Antibiotics and Tetracyclines in Aquaculture products by LC-MS/MS |
| | | Brilliant Green, Gentian Violet, Leuco Gentian Violet, Leucomalachite Green, Malachite Green | PE-536 Identification and Quantitation of Colorants in Aquaculture Products by LC-MS/MS |
| Environmental Chemistry | Drinking Water | Hydrogen Ion (pH) | EPA 150.1 Electrometric* |
| | | Conductance | EPA 120.1 Conductometric* |
| | | Residue, Filterable (TDS) | EPA 160.1 Gravimetric* |
| | | Alkalinity | EPA 310.2 UV/Vis Spectrophotometric* |

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

| FIELDS OF TESTING | MATERIAL/MATRIX | DETERMINANT(S)/ANALYTE(S) | METHOD REFERENCE |
|---|-----------------------------|--|---|
| Environmental Chemistry (cont'd.) | Drinking Water (cont'd.) | Chloride | EPA 325.2 UV/Vis Spectrophotometric* |
| | | Nitrate (as N) | EPA 353.2 UV/Vis Spectrophotometric* |
| | | Sulfate | EPA 375.4 UV/Vis Spectrophotometric* |
| | | Calcium, Magnesium, Potassium, Sodium | EPA 200.7 ICP-OES* |

*Methods noted with asterisk are also recognized under the TNI Scope of Accreditation currently based on ISO/IEC 17025:2005.