



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 21, 2024



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 Dhairya Patel

Contact Phone 1-805-981-2972

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

Effective Date June 21, 2024

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 By Combustion (Dumas)
	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, Foods	Pesticide Residue
Listed in IT-134 GC-MS/MS and IT-136 LC-MS/MS			
Foods		Glyphosate	PE-681 Glyphosate by LC- MS/MS
		Acrylamide	PE-684 Acrylamide by LC-MS/MS
	Vitamin C	PE-540 Vitamin C in Foods by Chromatography HPLC-DAD	

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Food Chemistry (cont'd.)	Foods (cont'd.)	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 gas chromatography-FID (GC-FID)
		Fructose Glucose Galactose Sucrose Maltose Lactose	PE-541 Determination of sugar profile in food by HPLC-ELSD
		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 by Combustion (Dumas)	
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	
Food and Feeds	Total fat	PE-356 Total Fat in Foods by Gravimetric & Hydrolysis Method	
Grain Cereals (oats, rice, corn, wheat, etc.), cereal flours, cereal bran, dried fruit, nuts, fruit juices	Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Aflatoxin M1 Ochratoxin A Deoxynivalenol Zearalenone	PE-505 Mycotoxins by LC/MS-MS Chromatography	

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Food Chemistry (cont'd.)	Grain Cereals (oats, rice, corn, wheat, etc.), cereal flours, cereal bran, dried fruit, nuts, fruit juices (cont'd.)	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
	Food and Feed	Moisture	PE-345 Determination of moisture in foods by Oven Drying
		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 High Performance Liquid

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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)	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*

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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.