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CERTIFICACIONES DEL PERU S.A.

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Accredited to ISO/IEC 17025:2017

Effective Date May 22, 2026

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Physical measurements (Sampling & Field measurement)	Natural water and Wastewater	Flow (Currentmeter)	UNE-EN-ISO 748, 2023. Hydrometry - Measurement of liquid flow in open channels Velocity area methods using Point velocity measurements (ISO 748:2021)
		Flow (Volumetric)	LE-ME-DC (validated 2021). Determination of Flow (Volumetric Method).
Environmental – Chemistry Organic Sampling & Analysis)	Natural water, Wastewater, Water for human use and consumption and Saline water.	Aldicarb, Carbofuran	ASTM D7645 – 23, 2023 Standard Test Method for Determination of Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Carbofuran, Methomyl, Oxamyl, and Thiofanox in Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).
	Air	Total Hydrocarbons Total Hydrocarbons expressed as Hexane	ASTM D3687-19, 2019. Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.
	Natural water; Water for human use and consumption	Pesticides in water by LC-MS/MS: Atrazine, Chlorotoluron, Cyanazine, Isoproturon, Simazine, Terbutylazine, Pyriproxyfen	ASTM D8025–23. 2023. Standard Test Method for Determination of Select Pesticides in Water by Multiple Reaction Monitoring Liquid Chromatography Tandem Mass Spectrometry. (Validated 2024).

TL-1054

CERTIFICACIONES DEL PERU S.A.

Effective Date May 22, 2026

Page 2 of 15

IAS/TL-Food/101-3



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Environmental – Chemistry Organic Sampling & Analysis) (cont'd.)	Water for human use and consumption	Herbicides / Haloacetonitriles: Alachlor, Metolachlor, Trifluralin / Dibromoacetonitrile, Dichloroacetonitrile, Chloral hydrate (trichloroacetaldehyde)	EPA Method 551.1. 1995. Determination of chlorination disinfection by-products, chlorinated solvents, and halogenated pesticides/herbicides in drinking water by liquid-liquid extraction and gas chromatography with electron-capture detection. (Validated 2025).
	Water for human use and consumption	Chlorinated herbicides: 2,4-D; 2,4-DB; Dichloroprop; MCPA; Mecoprop; 2,4,5-T; 2,4,5-TP (Fenoprop) (Silvex)	EPA Method 8151A. 1996. Chlorinated herbicides by GC using methylation or pentafluorobenzoylation derivatization. (Validated 2025).
	Water for human use and consumption	Herbicides / Insecticides: Molinate, Pendimethalin, Chlorpyrifos	EPA Method 8270E. 2018. Semivolatile organic compounds by gas chromatography/mass spectrometry. (Validated 2025).
Environmental – Chemistry Inorganic (Sampling & Field measurement)	Natural water, Wastewater, Water for human use and consumption, Saline water and Process water.	Redox potential	SMEWW-APHA-AWWA-WEF Part 2580 B, 24th Ed., 2023 (Revision 2021). Oxidation - Reduction Potential (ORP). Oxidation - Reduction Potential Measurement in Clean Water.
	Gaseous Emissions	O ₂ , NO _x , CO	EPA CTM 030 Rev. 7, 1997 (Validated 2021 for fuels: GLP, Fuel Oil, Diesel, Coque, Bagasse). Determination of Nitrogen Oxides, Carbon Monoxide, and Oxygen Emissions from Natural Gas-Fired Engines, Boilers and Process Heaters Using Portable Analyzers.
Environmental – Chemistry Inorganic (Sampling & Analysis)	Soils, Sediments and Sludges	Extractable Barium	Alberta Environment 2009. SBN N°978-0-7785-7691-4. Soil Remediation Guidelines for Barite: Environmental Health and Human Health. Sección 6.2.2. Método Analítico para Bario Extraíble / Method EPA 6010D, Rev. 5, 2018. Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).

SCOPE OF ACCREDITATION

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Chemistry Inorganic (Sampling & Analysis) (cont'd.)	Soils, Sediments and Sludges (cont'd.)	True Total Barium	Alberta Environment 2009. SBN N°978-0-7785-7691-4. Soil Remediation Guidelines for Barite: Environmental Health and Human Health. Sección 2.2.1. Suelos (Métodos de fusión), 9.1.3 Bario total real / Method EPA 6010D, Rev. 5, 2018. Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).
		Phenols	SMEWW-APHA-AWWA-WEF Part 5530 B, C, 24th Ed., 2023 (Validated 2021, reviewed 2023). Phenols. Cleanup Procedure/ Chloroform Extraction Method.
	Soils	Organic Matter Total Organic Carbon	NOM 021-SEMARNAT-2000. Segunda sección. 2002. Que establece las especificaciones de fertilidad, salinidad y clasificación de suelos. Estudios, muestreo y análisis. Sección 7.1.7. Procedimiento para la determinación de materia orgánica del suelo, método AS-07 de Walkley y Black.
		Organic Matter Total Organic Carbon (cont'd.)	NOM 021-SEMARNAT-2000. Segunda sección. 2002. Que establece las especificaciones de fertilidad, salinidad y clasificación de suelos. Estudios, muestreo y análisis. Sección 7.1.7. Procedimiento para la determinación de materia orgánica del suelo, método AS-07 de Walkley y Black.
	Sediments	Organic Matter Total Organic Carbon	NOM 021-SEMARNAT-2000. Segunda sección. 2002. Validado 2024. Que establece las especificaciones de fertilidad, salinidad y clasificación de suelos. Estudios, muestreo y análisis. Sección 7.1.7. Procedimiento para la determinación de materia orgánica del suelo, método AS-07 de Walkley y Black.
Natural water, Wastewater, Water for human use and consumption and Saline water.	Nitrogen (Organic) Kjeldahl Nitrogen Ammonia Nitrogen	SMEWW-APHA-AWWA-WEF Part 4500-Norg B, 24th Ed., 2023. Nitrogen (Organic). Macro-Kjeldahl Method.	

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental – Chemistry Inorganic (Sampling & Analysis) (cont'd.)	Natural water; Water for human use and consumption; Saline water; Process water; Waste water	Monochloramine	EPA Method 127. Determination of Monochloramine Concentration in Drinking Water. 2021 (Validated 2025).
	Natural water; Water for human use and consumption; Saline water; Process water; Waste water	Salinity	SMEWW-APHA-AWWA-WEF Part 2520 B, 24th Ed.2023. Salinity. Electrical Conductivity Method.
	Air	Non-Methane Hydrocarbons (NMHC)	ASTM D3687-19, 2019. Standard Test Method for Analysis of Organic Compound Vapors Collected by the Activated Charcoal Tube Adsorption Method.
	Air	Benzene	UNE-EN 13528-1:2003 Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 1: General requirements / UNE-EN 13528-2:2003 Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 2: Specific requirements and test methods / UNE-EN 13528-3:2004 Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 3: Guide to selection, use and maintenance. NTP 900.036:2017. ENVIRONMENTAL QUALITY MONITORING. Air quality. Passive diffusion samplers for determining gas and vapor concentrations. Requirements and test methods. Part 1: General requirements.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
	Air	Ozone	NTP-ISO 13964:2020. Air quality. Determination of ozone in ambient air. Ultraviolet photometric method
	Air	Particulate matter PM 10 PM 2.5	NTP 900.081:2025 AIRE AMBIENTAL. Sistemas de medición automatizados para la medición de concentración de material particulado (PM 10; PM 2,5)
Environmental – Air environmental noise (Field measurement)	Air	Railway traffic noise; Air traffic noise	NTP ISO 1996-2:2023. ACOUSTICS. Description, measurement, and evaluation of environmental noise. Part 2: Determination of sound pressure levels. NTP ISO 1996-1:2020. ACOUSTICS. Description, measurement, and evaluation of environmental noise. Part 1: Basic indices and evaluation procedure.
Food-Organic Pesticides (Analysis)	Fruits and Vegetables	Pesticide Residues by LC-MSMS: 1-Naphthalene acetamide, 5-Hydroxythiabendazole, Acephate, Aldicarb, Ametoctradin, Amidosulfuron, Aminocarb, Azaconazole, Azamethiphos, Azoxystrobin, Beflubutamid, Benalaxyl, Benoxacor, Bentazone-8-hydroxy, Benzoximate, Bifenazate, Bifenthrin, Bispyribac, Bistrifluron, Bitertanol, Boscalid, Bromuconazole, BTS 27919 (N-(2,4-dimethylphenyl)formamide), Bupirimate, Buprofezin, Butafenacil, Cadusafos, Carbaryl, Carbendazim, Carbofuran, Carboxin, Carfentrazone-ethyl,	LE-ME-RPA. Version 03, 2025. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food-Organic Pesticides (Analysis) (cont'd.)	Fruits and Vegetables (cont'd.)	Carpropamid, Chlorantranilprole, Chlordimeform, Chlorfenvinphos, Chloridazon, Chlorotoluron, Chloroxuron, Chlorpyriphos, Chlorsulfuron, Clethodim, Clofentezine, Clomazone, Coumaphos, Cyazofamid, Cycloate, Cycluron, Cymiazol, Cymoxanil, Cyproconazole, Cyprodinil, DEET, Desmedipham, Diazinon, Diethofencarb, Difenoconazole, Difethialone, Diflubenzuron, Diflufenican, Dimethachlor, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Dinocap, Dinotefuran, Dioxacarb, Dipropetryn, Diuron, DMSA, DMST, Dodine, Epoxiconazole, Ethidimuron, Ethion, Ethirimol, Ethofumesate, Ethoprophos, Ethoxysulfuron, Etofenprox, Etoxazole, Fenamidon, Fenamiphos – sulfone, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid, Fenobucarb, Fenoxycarb, Fenpropidin, Fenpropimorph, Fenpyroximat, Fipronil, Flzasulfuron, Fluazinam, Flubendiamide, Fludioxonil, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluoxastrobin, Fluphenazine-hydrochloride, Fluquinconazole, Flusilazole, Flutriafol, Hexaconazole,	LE-ME-RPA. Version 03, 2025. Pesticide Residues in Food by LC-MSMS/ GC-MSMS (cont'd.)

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food-Organic Pesticides (Analysis) (cont'd.)	Fruits and Vegetables (cont'd.)	Hexaflumuron, Hexythiazox, Hydramethylnon, Imazalil, Imazamox, Indoxacarb, Ioxynil, Ipconazole, Iprovalicarb, Isoprothiolane, Isoxaben, Linuron, Malathion, Mefenacet, Mepanipyrim, Mesosulfuron-methyl, Metaflumizone, Metalaxyl, Metamifop, Metconazole, Methamidophos, Methomyl, Methoxyfenozide, Metobromuron, Metrafenon, Metribuzin, Metsulfuron-methyl, Molinate, Myclobutanil, Napropamide, Nicosulfuron, Oxadiazon, Oxasulfuron, Paclobutrazol, Pencycuron, Pendimethalin, Phoxim, Picoxystrobin, Pinoxaden, Piperalin, Piperonyl butoxide, Prochloraz, Promecarb, Propaquizafop, Propargite, Propham, Propyzamid, Proquinazid, Prosulfocarb, Pyracarbolid, Pyraclostrobin, Pyrethrin, Pyridaben, Pyridat, Pyrifenox, Pyrimethanil, Pyrimidifen, Pyriofenone, Pyriproxyfen, Quinalphos, Quinmerac, Quinoxyfen, Rimsulfuron, Rotenone, Silthiopham, Spinetoram J, Spinetoram L, Spirodiclofen, Spiromesifen, Spirotetramat, Sulcotrione, Sulfamethoxazole, Tebuconazole, Tebufenozide, Tebufenpyrad, Temephos, Tetraconazole, Thiabendazol, Thiacloprid,	LE-ME-RPA. Version 03, 2025. Pesticide Residues in Food by LC-MSMS/ GC-MSMS (cont'd.)

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food-Organic Pesticides (Analysis) (cont'd.)	Fruits and Vegetables (cont'd.)	Thiamethoxam, Thiodicarb, Tolyfluanid, Tralkoxydim, Triadimenol, Triapenthenol, Tribenuron-methyl, Tricyclazole, Trietazine, Trifloxystrobin, Triflumizole, Triflumuron, Zoxamide.	LE-ME-RPA. Version 03, 2025. Pesticide Residues in Food by LC-MSMS/ GC-MSMS (cont'd.)
		Pesticide Residues by GC-MSMS: 1,4-Dimethylnaphthalene, Acetochlor, Acibenzolar-S-methyl, Aclonifen, Acrinathrin, Alachlor, Ametryn, Benazolin-ethyl, Benfluralin, Benodanil, Benzoylprop-ethyl, Bromacil, Bromophos-ethyl, Bromuconazole I, Butachlor, Butralin, Cadusafos, Carbophenothion, Chlorbenside, Chlorfenvinphos, Chlormephos, Chloropropylate, Chlorpyrifos-methyl, Chlorthiophos, Cinidon-ethyl, Clodinafop-propargyl, Cloquintocet-mexyl, Coumaphos, Crimidine, Cyanofenphos, Cyanophos, Cycloate, Cyenopyrafen, Cyhalofop-butyl, Cyprodinil, Cyprofuram, DDD-o,p', DDD-p,p', DDE-o,p', DDE-p,p', DDT SUM, DDT-o,p', DDT-p,p', DEET, Demeton-S-methyl sulfon, Desmetryn, Diallylate II {CAS # 2303-16-4}, Dibenzofuran, Dichloroaniline, 3,5, Dichlorobenzamide, 2,6-, Dichlorvos, Diclofop-methyl, Dimethachlor, Dimethenamid-P,	LE-ME-RPA. Version 03, 2025. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food-Organic Pesticides (Analysis) (cont'd.)	Vegetables (cont'd.)	Dimoxystrobin, Diphenamid, Dipropetryn, Ditalimfos, DMSA, Dodemorph I, Endosulfan sulfate, Endrin, Epoxiconazole, Esfenvalerate, Etaconazole (α)+(β), Ethalfluralin, Ethofenprox, Ethofumesate, 2-keto-, Fenobucarb, Fenson, Fensulfothion sulfon, Fipronil sulfide, Flumioxazin, Fluorochloridone, Fluotrimazole, Fluquinconazole, Flurenol-butyl, Fluroxypyr-1-methylheptyl, Fonofos, Furalaxyl, Haloxyfop-2-ethoxyethyl, Haloxyfop-methyl, Heptachlor, Hexazinone, Iodofenphos, Isodrin, Isofenphos, Isofenphos-methyl, Isoprocarb I, Isoprothiolane, Leptophos, Malathion, Methoprene, Methoxychlor, p,p'-, Metolachlor, S-, Metrafenone, Metribuzin, Mirex, Naphthalenol, 1-, Nitrapyrin, Nitrofen, Nitrothal-isopropyl, Norflurazon, Nuarimol, Oxadiazon, Oxyfluorfen, Penconazole, Pencycuron, Pendimethalin, Pentachloroanisole, Pentachlorobenzene, Phenthoate, Phorate Sulfoxide, Phosalone, Picolinafen, Picoxystrobin, Pirimiphos-ethyl, Profluralin, Prometryn, Propanil, Propargite, Propetamphos, Propham, Propyzamide, Prothiofos,	LE-ME-RPA. Version 03, 2025. Pesticide Residues in Food by LC-MSMS/ GC-MSMS (cont'd.)

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Food-Organic Pesticides (Analysis) (cont'd.)	Vegetables (cont'd.)	Pyraclostrobin, Pyraflufen-ethyl, Pyridalyl, Pyroquilon, Quizalofop-ethyl, Resmethrin, Sebuthylazine, Silafluofen, Simazine, Spiromesifen, Spiroxamine I, Sulprofos, Tebufenpyrad, Tebutam, Tecnazene, Terbufos, Terbufos sulfone, Terbumeton, Terbuthylazine, Tetradifon, Tetramethrin II {CAS # 7696-12-0}, Thiocyclam Hydrogenoxalate (as Thiocyclam), Transfluthrin, Triadimefon, Triallate, Triamiphos, Trichloronat, Trichlorophenol, 2,4,6-, Trietazine, Trifenmorph, Trifloxystrobin, Trinexapac- ethyl, Vinclozolin.	LE-ME-RPA. Version 03, 2025. Pesticide Residues in Food by LC-MSMS/ GC-MSMS (cont'd.)
	Fruits and Vegetables; Cereals; Dry legume vegetables/pulses.	Glyphosate; Glufosinate; Ethephon; Fosetyl-Al; Perchlorate; Chlorate; Phosphonic acid; Aminomethylphosphonic acid (AMPA).	LE-ME-PPA – Highly Polar Pesticide Residues in food by LC-MS/MS.
Environmental – Air Emissions (Field Measurement)	Emissions	Opacity	ASTM D2156-09 (Reapproved 2024) Standard Test Method for Smoke Density in Flue Gases from Burning Distillate Fuels
Environmental – Air (Field Measurement)	Air	Meteorological parameters: Wind Speed, Wind Direction (Wind Rose), Environmental Temperature, Relative Humidity, Atmospheric Pressure, Precipitation, Solar Radiation.	ASTM D5741-96 (Reapproved 2023) Standard Practice for Characterizing Surface Wind Using a Wind Vane and Rotating Anemometer. (Validated)
Environmental (Field Testing)	Environmental Vibration	Displacement. - Velocity. - Acceleration. - Frequency. - Maximum weighted vibration severity KB_{Fmax}	DIN 4150-1:2022-12. Vibrations in buildings. Part 1: Predictions of vibration parameters; DIN 4150-2:1999-06/COR 2023-02. Structural vibration. Part 2: Human exposure to vibration in buildings; DIN 4150-3:2016-12

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental (Field Testing) (cont'd.)	Environmental Vibration (cont'd.)	- Evaluation vibration severity KB_{FT}	Vibrations in buildings Part 3: Effects on structures
Foods – Chemistry Inorganic	Carbonated Beverages	Acidity	NTE INEN 1091:1983 (Confirmed 2013). Carbonated beverages — Determination of titratable acidity.
	Non-Carbonated Beverages	Acidity	ISO 750:1998. Fruit and vegetable Products — Determination of Titratable Acidity (Validated 2025).
	Carbonated Beverages	pH	NTE INEN 1087:1984 (Confirmed 2013). Carbonated beverages — Determination of pH.
	Non-Carbonated Beverages	pH	ISO 1842:1991. Fruit and vegetable Products — Determination of pH. (Validated 2025).
Foods (Lab testing)	Fishmeal	Free Fatty Acids (FFA)	AOCS Official Method Ca 5a-40: 8th Ed.2024. Free Fatty Acids in Crude and Refined Fats and Oils. (Validated 2025).
		Sand	NTP 204.024:1982 (revised 2020). FISH MEAL. Test method for the determination of sand. (Validated 2025).
		Ash	AOAC 942.05, Chapter 4, 22nd Ed. 2023. Ash of Animal Feed.
		Chlorides	AOAC 937.09, Chapter 35, 22nd Ed. 2023. Salt (Chlorine as Sodium Chloride) in Seafood: Volumetric Method. (Validated 2025).
		Fat	AOAC 920.39, Chapter 4, 22nd Ed. 2023. Fat (Crude) or Ether Extract in Animal Feed. (Validated 2025).
		Moisture	NTP ISO 6496:2011 (revised 2022). Section 8.2 and 9.1. Animal feeds. Determination of moisture content and other volatile matter.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Foods (Lab testing) (cont'd.)	Fishmeal (cont'd.)	Fluorine	AOAC 975.08, 22nd Ed. 2023. Fluorine in Animal Feed. Ion Selective Electrode Method. (Validated 2025).
		Nitrite	NTP-ISO 2918:2006 (revised 2020). Meat and meat products. Determination of nitrite content (Reference method). (Validated 2025).
		Ammoniacal Nitrogen (TVBN)	NTP 201.032:1982 (revised 2024). Meat and meat products. Determination of ammoniacal nitrogen content. (Validated 2025).
		Protein	AOAC 984.13, Chapter 4, 22nd Ed. 2023. Protein (Crude) in Animal Feed and Pet Food. Copper Catalyst Kjeldahl Method.
		Digestibility to pepsin	AOAC 971.09, Chapter 4, 22nd Ed. 2023. Pepsin Digestibility of Animal Protein Feeds. Filtration Method.
		Histamine	NCh 2637. Of. 2001. Hydrobiological Products - Determination of Histamine and Other Biogenic Amines - HPLC Method with UV Detector.
		Ethoxyquin	LE-ME-EHP. 2025. Determination of Ethoxyquin in Fishmeal.
		Heavy metals: Cadmium (Cd), Arsenic (As), Chromium (Cr), Lead (Pb), Mercury (Hg)	AOAC Official Method 2015.01. 22 nd Ed., 2023. Heavy Metals in Food: Inductively Coupled Plasma–Mass Spectrometry. (Validated 2025).
Foods – Microbiology	Non-Carbonated Beverages	Mesophilic Aerobic Plate Counts	ICMSF. Microorganisms in foods 1. Their significance and methods of enumeration. 2nd Ed., Volume 1 Part II, Method 1, Page 120 - 124 (Translation of the original version 1978). Reprint 2000. Editorial Acribia. 1983. Standard plate count. Method 1.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Foods – Microbiology (cont'd.)	Non-Carbonated Beverages	Coliforms	ICMSF. Microorganisms in foods 1. Their significance and methods of enumeration. 2nd Ed., Volume 1 Part II, Method 1, Page 132-134 (Translation of the original version 1978). Reprint 2000. Editorial Acribia. 1983. Coliform count. Most Probable Number (MPN). Technique. Method 1.
	Non-Carbonated Beverages	Determination of Escherichia Coli (NMP)	ICMSF. Microorganisms in foods 1. Their significance and methods of enumeration. 2nd Ed., Volume 1 Part II, Method 1, Page 132-134, 138-142. (Translation of the original version 1978). Reprint 2000. Editorial Acribia. 1983. Identification tests for coliform organisms IMVIC.
	Non-Carbonated Beverages	Salmonella	ICMSF. Microorganisms in foods 1. Their significance and methods of enumeration. 2nd Ed., Volume 1 Part II, Page 172-176 item 10 (a) and (c), Page 177-178. (Translation of the original version 1978). Reprint 2000. Editorial Acribia. 1983. Salmonella.
	Non-Carbonated Beverages	Mold Count	ISO 21527-1:2008. Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds. Part 1: Colony count technique in products with water activity greater than 0,95.
	Non-Carbonated Beverages	Yeast Count	ISO 21527-1:2008. Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of yeasts and moulds. Part 1: Colony count technique in products with water activity greater than 0,95.
	Fishmeal	Determination of components of animal origin	Commission Regulation (EU) No. 2022/893 of June 7, 2022 that modifies Annex VI of Regulation (EC) No. 152/2009. Regarding the methods of analysis for the detection of components from

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Foods – Microbiology (cont'd.)	Fishmeal (cont'd.)	Determination of components of animal origin (cont'd.)	terrestrial invertebrates for the purpose of official feed control. Method 2.1 Optical Microscopy. Except 2.1.3.1 and 2.1.3.3
		Enumeration of Enterobacteriaceae (MPN)	ISO 21528-1:2017. Microbiology of the food chain — Horizontal method for the detection and enumeration of Enterobacteriaceae — Part 1: Detection of Enterobacteriaceae, Annex A: Enumeration by MPN technique.
Foods – Sensory physical (Lab testing)	Fishmeal	Insects in fishmeal	LE-ME-DHP, Version 01, 2025. Determination of insects in fishmeal (Validated 2025)