



CERTIFICATE OF ACCREDITATION

This is to attest that

CERTIFICACIONES DEL PERU S.A.

AV. SANTA ROSA 601, LA PERLA, CALLAO
LIMA 055, PERU

Testing Laboratory TL-1054

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 17, 2024



International Accreditation Service
Issued under the authority of IAS management

IAS is an ILAC MRA Signatory

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SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017

Effective Date June 17, 2024

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Environmental – Physical measurements (Sampling & Field measurement)	Natural water and Wastewater	Flow	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.
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	O2, NOx, 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.

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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).
		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.
	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.
Occupational Health & Safety-Physical Measurements (Sampling & Field measurement)	Occupational Health	Ultraviolet Radiation Index	UNE EN 14255-3:2009, 2009. Measurement and assessment of personal exposures to incoherent optical radiation - Part 3: UV-Radiation emitted by the sun.
Food-Organic Pesticides (Analysis)	Fruits and Vegetables	Pesticide Residues by LC-MSMS: 1-Naphthalene acetamide, 5-Hydroxythiabendazole, Acephate, Aldicarb, Ametocradin, Amidosulfuron, Aminocarb, Azaconazole, Azamethiphos,	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

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Food-Organic Pesticides (Analysis) (continued)	Fruits and Vegetables (continued)	Azoxystrobin, Beflubenbutamid, 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, Carpropamid, Chlorantraniliprole, Chlordimeform, Chlorfenvinphos, Chloridazon, Chlorotoluron, Chloroxuron, Chlorpyrifos, Chlorsulfuron, Clethodim, Clofentezine, Clomazone, Coumaphos, Cyazofamid, Cycloate, Cycluron, Cymiazol, Cymoxanil, Cyproconazole, Cyprodinil, DEET, Desmedipham, Diazinon, Diethofencarb, Difenconazole, Difethialone, Diflubenzuron, Diflufenican, Dimethachlor, Dimethoate, Dimethomorph, Dimoxystrobin, Diniconazole, Dinocap, Dinotefuran, Dioxacarb, Dipropetryn, Diuron, DMSA, DMST, Dodine, Epoxiconazole, Ethidimuron, Ethion, Ethirimol, Ethofumesate, Ethoprophos, Ethoxysulfuron, Etofenprox, Etoazole, Fenamidon, Fenamiphos – sulfone, Fenarimol, Fenazaquin, Fenbuconazole, Fenhexamid, Fenobucarb, Fenoxycarb, Fenpropidin,	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

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Food-Organic Pesticides (Analysis) (continued)	Fruits and Vegetables (continued)	Fenpropimorph, Fenpyroximat, Fipronil, Flazasulfuron, Fluazinam, Flubendiamide, Fludioxonil, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide, Fluoxastrobin, Fluphenazine- hydrochloride, Fluquinconazole, Flusilazole, Flutriafol, Hexaconazole, 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, Pyridifenox, Pyrimethanil, Pyrimidifen, Pyriofenone, Pyriproxyfen, Quinalphos, Quinmerac, Quinoxifen, Rimsulfuron, Rotenone, Silthiopham, Spinetoram J, Spinetoram L, Spirodiclofen, Spiromesifen, Spirotetramat, Sulcotrione, Sulfamethoxazole, Tebuconazole, Tebufenozide, Tebufenpyrad, Temephos,	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

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Food-Organic Pesticides (Analysis) (continued)	Fruits and Vegetables (continued)	Tetraconazole, Thiabendazol, Thiacloprid, Thiamethoxam, Thiodicarb, Tolylfluanid, Tralkoxydim, Triadimenol, Triapenthenol, Tribenuron-methyl, Tricyclazole, Trietazine, Trifloxystrobin, Triflumizole, Triflumuron, Zoxamide.	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS
		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, Carbofenothion, Chlorbenside, Chlorfenvinphos, Chlormephos, Chloropropylate, Chlorpyrifos-methyl, Chlorthiophos, Cinidonethyl, 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, Diallate II {CAS # 2303-16-4}, Dibenzofuran, Dichloroaniline, 3,5-, Dichlorobenzamide, 2,6-, Dichlorvos, Diclofop-methyl, Dimethachlor, Dimethenamid-P, Dimoxystrobin, Diphenamid, Dipropetryn, Ditalimfos, DMSA, Dodemorph I, Endosulfan sulfate, Endrin, Epoxiconazole,	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

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Food-Organic Pesticides (Analysis) (continued)	Fruits and Vegetables (continued)	Esfenvalerate, Etoconazole (α)+(β), Ethalfluralin, Ethofenprox, Ethofumesate, 2-keto-, Fenobucarb, Fenson, Fensulfothion sulfon, Fipronil sulfide, Flumioxazin, Fluorochloridone, Fluotrimazole, Fluquinconazole, Flurenol- butyl, Fluroxypyr-1- methylheptyl, Fonofos, Furalaxyl, Haloxypop-2- ethoxyethyl, Haloxypop- methyl, Heptachlor, Hexazinone, Iodofenphos, Isodrin, Isofenphos, Isofenphos-methyl, Isoproc carb I, Isoprothiolane, Lep tophos, Malathion, Methoprene, Methoxychlor, p,p'-, Metolachlor, S-, Metrafenone, Metribuzin, Mirex, Naphthalenol, 1-, Nitrapyrin, Nitrofen, Nitrothal-iso-propyl, Norflurazon, Nuarimol, Oxadiazon, Oxyfluorfen, Penconazole, Pencycuron, Pendimethalin, Pentachloroanisole, Pentachlorobenzene, Phenthoate, Phorate Sulfoxide, Phosalone, Picolinafen, Picoxystrobin, Pirimiphosethyl, Profluralin, Prometryn, Propanil, Propargite, Propetamphos, Propham, Propyzamide, Prothiofos, Pyraclostrobin, Pyraflufenethyl, 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, Triami-	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

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Food-Organic Pesticides (Analysis) (continued)	Fruits and Vegetables (continued)	phos, Trichloronat, Trichlorophenol, 2,4,6-, Trietazine, Trifenmorph, Trifloxystrobin, Trinexapacethyl, Vinclozolin.	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS