



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 May 19, 2025



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017

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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	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.

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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.
	Soils, Sediments (Validated)	Organic Matter Total Organic Carbon	NOM-021-RECNAT-2000. 2002. Salinity Specifications and Soil Classification. Studies, Sampling and Analysis. Section 7.1.7 Determination of Soil Organic Matter – Walkley 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.
	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.

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Environmental – Chemistry Inorganic (Sampling & Analysis)	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.
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, Ametoctradin, Amidosulfuron, Aminocarb, Azaconazole, Azamethiphos, Azoxystrobin, Beflubutamid, Benalaxyl, Benoxacor, Bentazone-8-hydroxy, Benzoximate, Bifenazate, Bifenthrin, Bispyribac, Bistrifluron,	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)	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, Chlortoluron, Chloroxuron, Chlorpyrifos, Chlorsulfuron, Clethodim, Clofentezine, Clomazone, Coumaphos, Cyazofamid, Cycloate, Cycluron, Cymiazol, Cymoxanil, Cyproconazole, Cyprodinil, DEET, Desmedipham, Diazinon, Diethofencarb, Difenconazole, Difethialone, Diflubenuron, 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, Fenaziquin, Fenbuconazole, Fenhexamid, Fenobucarb, Fenoxycarb, Fenpropidin, Fenpropimorph, Fenpyroximat, Fipronil, Flazasulfuron, Fluazinam, Flubendiamide, Fludioxonil, Flufenacet, Flufenoxuron, Fluometuron, Fluopicolide,	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)	Fluoxastrobin, Fluphenazine- hydrochloride, Flupyrazonil, 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, Tetraconazole, Thia-bendazol, Thiacloprid, Thiamethoxam, Thiodicarb, Tolylfluanid, Tralkoxydim, Triadimenol, Triapenthenol,	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)	Tribenuron-methyl, Tricyclazole, Trietazine, Trifloxystrobin, Triflumizole, Triflumuron, Zoxamide.	
		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, Carbo-phenothion, Chlorbenside, Chlorfenvinphos, Chlormephos, Chloropropylate, Chlorpyrifos-methyl, Chlorthiophos, Cinidon-ethyl, Clodinafop-propargyl, Cloquintocet-mexyl, Coumaphos, Crimidine, Cyanofenphos, Cyanophos, Cycloate, Cyenopyrafen, Cyhalofop- butyl, Cyprodi-nil, 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, Dime-thenamid-P, Dimoxystrobin, Diphenamid, Dipropetryn, Ditalimfos, DMSA, Do-demorph I, Endosulfan sul-fate, Endrin, Epoxiconazole, Esfenvalerate, Etaconazole (α)+(β), Ethalfuralin, Etho-fenprox, Ethofumesate, 2-keto-, Fenobucarb, Fenson, Fensulfothion sulfon,	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)	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, Isoprocab I, Isoprothiolane, Lep-tophos, Malathion, Methoprene, Methoxychlor, p,p', Metolachlor, S-, Met-rafenone, Metribuzin, Mirex, Naphthalenol, 1-, Nitrapyrin, Nitrofen, Nitrothal-iso-propyl, Norflurazon, Nuairimol, Oxadiazon, Ox-yfluorfen, Penconazole, Pencycuron, Pendimethalin, Pentachloroanisole, Penta-chlorobenzene, Phenthoate, Phorate Sulfoxide, Phosalone, Picolinafen, Picoxystrobin, Pirimiphos-ethyl, Profluralin, Prometryn, Propanil, Propargite, Propetamphos, Propham, Propyzamide, Prothiofos, Pyraclostrobin, Pyraflufen-ethyl, Pyridalyl, Pyroquilon, Quizalofop-ethyl, Resmethrin, Sebuthylazine, Silafluofen, Simazine, Spiromesifen, Spiroxamine I, Sulprofos, Tebufenpyrad, Tebutam, Tecnazene, Terbufos, Terbufos sulfone, Terbumeton, Ter-buthylazine, Tetradifon, Tetramethrin II {CAS # 7696-12-0}, Thiocyclam Hydrogenoxalate (as Thiocyclam), Transfluthrin, Triadimefon, Triallate, Triamiphos, Trichloronat, Trichlorophenol, 2,4,6-, Trietazine, Trifenmorph, Tri-floxystrobin, Trinexapac-ethyl, Vinclozolin.	LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS

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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.	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 Vibrations in buildings Part 3: Effects on structures