

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

CERTIFICACIONES DEL PERU S.A.

www.cerper.com

Contact Name Sandra Espinoza

Contact Phone +51-957565969

Accredited to ISO/IEC 17025:2017

Effective Date September 22, 2023

| 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 D7645-16, 2016. 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 |

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 |
|---|--|--|---|
| | | | 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). |
| | | 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, Ametoctradin, Amidosulfuron, Aminocarb, | LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS |

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-Organic Pesticides (Analysis) (continued) | Fruits and Vegetables (continued) | 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, Carpropamid, Chlorantraniliprole, Chlordimeform, Chlorfenvinphos, Chloridazon, Chlorotoluron, Chloroxuron, Chlorpyriphos, 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, Etoxazole, Fenamidon, Fenamiphos – sulfone, Fenarimol, Fenazaquin, | LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS |

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-Organic Pesticides (Analysis) (continued) | Fruits and Vegetables (continued) | Fenbuconazole, Fenhexamid, Fenobucarb, Fenoxycarb, Fenpropidin, 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, Pyrifenox, Pyrimethanil, Pyrimidifen, Pyriofenone, Pyriproxyfen, Quinalphos, | LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS |

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-Organic Pesticides (Analysis) (continued) | Fruits and Vegetables (continued) | 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, 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, | LE-ME-RPA. Version 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS |

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-Organic Pesticides (Analysis) (continued) | Fruits and Vegetables (continued) | Pentachlorobenzene, Phenthoate, Phorate Sulfoxide, Phosalone, Picolinafen, Picoxystrobin, Pirimiphos-ethyl, Profluralin, Prometryn, Propanil, Propargite, Propetamphos, Protham, Propyzamide, Prothiofos, 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 02, 2022. Pesticide Residues in Food by LC-MSMS/ GC-MSMS |