



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

LABORATORIO LASA
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CHEMICAL

Valid To: February 28, 2022

Certificate Number: 5524.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

<u>Test(s)</u>	<u>Internal Method(s)</u>	<u>Reference Method(s)</u>	<u>Matrices</u>
Alkalinity – Volumetric	PEE.LASA.FQ.01a	APHA 2320 B	Natural Water Residual Water Drinking Water
Ammoniacal Nitrogen – Spectrophotometric	PEE.LASA.FQ.18	HACH 8038	Natural Water Drinking Water
Ash – Gravimetric	PEE.LASA.FQ.10-c1	AOAC 923.03	Cereal Cereal Products
	PEE.LASA.FQ.10-c2	AOAC 920.153	Meat Meat Products
	PEE.LASA.FQ.10-c3	AOAC 945.46 AOAC 935.42 AOAC 930.30	Milk Milk Products
Cadmium (Cd) by GFAAS	PEE.LASA.BR.48	UNE – EN 14084 AOAC 999.10	Cocoa Products Cereal Products
Cadmium (Cd) by GFAAS	PEE.LASA.FQ.35	EPA 7010 EPA 200.9	Natural Water Drinking Water
Caffeine by HPLC	PEE.LASA.BR.36	AOAC 980.14 AOAC 960.25	Carbonated Beverages, Non-carbonated Beverages, Tea, Coffee
Calcium – Volumetric	PEE.LASA.FQ.01d	APHA 3500-Ca B	Natural Water Residual Water Drinking Water
Chlorides – Volumetric	PEE.LASA.FQ.01b	APHA 4500 Cl- B	Natural Water Residual Water Drinking Water
Cholesterol by GC-FID	PEE.LASA.BR.54	AOAC 994.1	Meat Products, Milk Products, Sauces, Dressings, Cereal, Cereal Products

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Color – Spectrophotometric	PEE.LASA.FQ.14	APHA 2120 D	Natural Water Residual Water Drinking Water
Copper (Cu) by GFAAS	PEE.LASA.BR.48	UNE – EN 14084 AOAC 999.10	Cocoa Products, Cereal Products, Fat, Consumable Oils
Cyanide (Free) – Spectrophotometric	PEE.LASA.FQ.17	APHA 4500 CN HACH 8025	Natural Water Residual Water Drinking Water
Cyanide (Total) – Spectrophotometric	PEE.LASA.FQ.17	APHA 4500 CN HACH 8025	Natural Water Drinking Water
Dietary Fiber - Gravimetric	PEE.LASA-BR-29	AOAC 991.43 AOAC 985.29	Cereals, Cereal Products, Milk, Milk Products, Cocoa, Derivatives
Fat – Gravimetric	PEE.LASA.FQ.10-b1	AOAC 920.85 AOAC 2003.06	Cereal, Cereal Products
	PEE.LASA.FQ.10-b2	AOAC 2003.06	Sauces, Dressings
	PEE.LASA.FQ.10-b2	NTE INEN ISO 1443	Meat, Meat Products
	PEE.LASA.FQ.10-b3	AOAC 989.05 AOAC 2003.06	Milk, Milk Products
Fat (Crude) – Gravimetric	PEE.LASA.FQ.10-b2	AOAC 960.39	Meat, Meat Products
Fatty Acid Profile by GC-FID	PEE.LASA.FQ.47	AOAC 996.06 AOAC 963.22	Fat, Oil, Foods
Hardness (Total) – Volumetric	PEE.LASA.FQ.01c	APHA 2340 C	Natural Water, Residual Water, Drinking Water,
Lead (Pb) by GFAAS	PEE.LASA.FQ.35	EPA 7010 EPA 200.9	Natural Water, Drinking Water
Lead (Pb) by GFAAS	PEE.LASA.BR.37	UNE – EN 14084 AOAC 999.10	Foods (Sweet, Milk Products, Cocoa Products, Cereals, Sparkling Drinks, and Beers)
Magnesium – Volumetric	PEE.LASA.FQ.01d	APHA 3500-Ca B APHA 2340 C APHA 3500-Mg B	Natural Water, Residual Water, Drinking Water
Mercury (Hg) by CVAAS	PEE.LASA.BR.49	UNE – EN 13806	Sea Products, Cereals Products, Cocoa Products
Moisture – Gravimetric	PEE.LASA-FQ-10a1	AOAC 925.10 AOAC 920.171 AOAC 920.151	Cereals, Cereal Products, Sauces, Dressings, Fruits, Derivatives
pH - Electrometric	PEE.LASA-FQ-03	APHA 4500-H ⁺ B, Ed. 23, 2017	Natural Water, Residual Water, Drinking Water

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pH - Electrometric	PEE.LASA-FQ-03a	AOAC 981.12 B AOAC 945.10	Fruits, Derivatives, Non-alcoholic Beverages, Alcoholic Beverages, Carbonated Beverages
		AOAC 943.02 AOAC 981.12	Cereals, Cereal Products, Sauces, Dressings
		NTE INEN ISO 10523	Milk, Dairy Beverages
Protein – Volumetric	PEE.LASA.FQ.11	AOAC 981.10 AOAC 928.08 AOAC 991.20 NTE INEN ISO 20483	Cereals, Cereal Products, Meat, Meat Products, Milk, Milk Products
Sodium (Na) by FAAS	PEE.LASA.FQ.21a	ISO 8070:2007	Meat Products, Milk Products
Sugar by HPLC	PEE.LASA.FQ.57	AOAC 980.13 AOAC 982.14 AOAC 977.20	Milk, Milk Products, Cereal, Cereal Products, Fruits, Derivatives
Turbidity – Nephelometric	PEE.LASA.FQ.08	APHA 2130 B	Natural Water, Residual Water, Drinking Water
Vitamin C by HPLC	PEE.LASA.FQ.33	AOAC 967.21	Juice, Fruit Pulp, Non-alcoholic Beverages, Cereal Products
HAPs by HPLC-FLD			
Anthracene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Benz (a) anthracene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Benzo (a) pyrene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Benzo (b) fluoranthene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Benzo (g,h,i) perylene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Benzo (k) fluoranthene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Chrysene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil

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Dibenz (a,h) anthracene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Fluoranthene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Fluroene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Indeno (1,2,3-cd) pyrene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Naphthalene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Phenanthrene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Pyrene	PEE.LASA.FQ.67	EPA 550.1 EPA 8310	Natural Water, Drinking Water, Soil
Organochlorine Pesticides by GC-ECD			
Aldrin	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
a-BHC	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
b-BHC	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
d-BHC	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
g-BHC	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
4,4-DDD	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
4,4-DDE	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
4,4-DDT	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Dieldrin	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Endosulfan I	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Endosulfan II	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Endosulfan Sulfate	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water

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Endrin	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Endrin Aldehyde	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Endrin Ketone	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Heptachlor	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Heptachlor Epoxide B	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Methoxychlor	PEE.LASA.FQ.38	EPA 8081B	Natural Water, Drinking Water
Organonitrogen Pesticides by GC-MS			
Alachlor	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Atrazine	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Bromacil	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Butachlor	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Meribuzin	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Metolachlor	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Prometon	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Simazina	PEE.LASA.FQ.76	NIOSH 5601 EPA 633	Natural Water, Drinking Water
Organophosphorus Pesticides by GC-MS			
Azynphos Methyl	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Chlorpyrifos Ethyl	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Demeton S	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Diazinon	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Dichlorvos	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Dimethoate	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Disulfoton	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Ethoprop	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water

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Ethyl Parathion	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Malathion	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Methyl Parathion	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Phorate	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Ronnel	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Terbufos	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water
Tetrachlorvinphos	PEE.LASA.FQ.39	EPA 8141B	Natural Water, Drinking Water





Accredited Laboratory

A2LA has accredited

LABORATORIO LASA

Quito, ECUADOR

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to *joint ISO-ILAC-IAF Communiqué dated April 2017*).



Presented this 26th day of February 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5524.02
Valid to February 28, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Biological Scope of Accreditation.