



# Certificate of Accreditation: Supplement

## SOMALAB S.A.C

Av. Proceres de la Independencia, N°3525, Oficina 201, Urb. Los Pinos

San Juan de Lurigancho, Lima, Perú. C.P. 15423

Contact Name: Diana Ochante Quispe Phone: +51- 955-924-441

*Accreditation is granted to the facility to perform the following conformity assessment activities:*

FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	FLEX CODE	LOCATION OF ACTIVITY
Environmental Testing	Gaseous Emissions	Particulate matter	NTP 900.005	Gravimetric	F1, F2 F1,	F
Environmental Testing	Gaseous Emissions	sulfur dioxide (SO <sub>2</sub> )	NTP 900.006	Titration Isokinetic	F2 F1, F2	F
Environmental Testing	Gaseous Emissions	NOX Nitrogen oxides (NO, NO <sub>2</sub> )	NTP 900.007	sampler Titration	F1, F2, F3	F
Environmental Testing	Air	Volatile Organic Compounds VOCs	ASTM D 3687 ASTM D 3686	GC/MS	F1, F2 F1,	F
Environmental Testing	Gaseous Emissions	Sulfur Dioxide (SO <sub>2</sub> )	EPA 6C	Combustion Gas Analyzers	F2 F1, F2,	F
Environmental Testing	Gaseous Emissions	NOX Nitrogen oxides (NO, NO <sub>2</sub> )	EPA 7E	Combustion Gas Analyzers	F3 F1, F2,	F
Environmental Testing	Soils, Sediments and Sludges	BTEX	EPA 8260 D	GC/MS	F3 F1, F2,	F
Environmental Testing	Soils, Sediments and Sludges	Volatile Organic Compounds VOCs	EPA 8260 D	GC/MS	F3 F1, F2,	F
Environmental Testing	Soils, Sediments and Sludges	Organochlorine Pesticides	EPA 8270 E	GC/MS	F3 F1, F2,	F
Environmental Testing	Soils, Sediments and Sludges	Polycyclic Aromatic Hydrocarbons	EPA 8270 E	GC/MS	F3 F1, F2,	F
Environmental Testing	Soils, Sediments and Sludges	Polychlorinated Biphenyls	EPA 8270 E	GC/MS	F3	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	BTEX	EPA 8260 D	GC/MS		F



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Environmental Testing	Wastewater, Natural Water, Water for use and Potable Water and Process Water	THM Trihalomethanes	EPA 8260 D	GC/MS	F1, F2, F3	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Organochlorine Pesticides (POCI)	EPA 8260 E	GC/MS	F1, F2, F3	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Aldicarb	EPA 8270 E	GC/MS	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Organophosphorus Pesticides (POF)	EPA 8270 E	GC/MS	F1, F2, F3	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Volatile Organic Compounds (VOC's)	EPA 8270 D	GC/MS	F1, F2, F3	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Polychlorinated Biphenyls (PCB's)	EPA 8270 E	GC/MS	F1, F2, F3	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Polycyclic Aromatic Hydrocarbons (PAH's)	EPA 8270 E	GC/MS	F1, F2, F3	F



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Environmental Testing	Gaseous Emissions	TRS as Sulfur Dioxide in Gaseous Emissions TRS as Hydrogen Sulfide in Gaseous Emissions	EPA 16A	Titration	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Phosphate	SM 4500-P E	UV-visible	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Total Nitrogen	SM 4500-N C	UV-visible	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Wad Cyanide	SM 4500-CN I, E	UV-visible	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Acidity	SM 2310 B	Volumetric Titration	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Chlorite	SM 4500-ClO <sub>2</sub> B, C, E	Volumetric Titration	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Chlorate	SM 4500-ClO <sub>2</sub> B, C, E	Volumetric Titration	F1, F2	F



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Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Chlorophyll	SM 10150 A2, B	UV-visible	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Odor	SM 2150 B	Constant temperature bath	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Flavor	SM 2160 B	Constant temperature bath	F1, F2	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Floating Materials	NMX-AA-006-SCFI	Visual	F1, F2	O
Environmental Testing	Gaseous Emissions	Sulfur dioxide (SO <sub>2</sub> )	CTM 022 CTM 030 CTM 022	Combustion Gas Analyzers	F1, F2	F, O
Environmental Testing	Air	Hydrogen sulfide (H <sub>2</sub> S)	UNE-EN 13528-1	Combustion Gas Analyzers	F1, F2	F, O
Environmental Testing		Benzene	UNE-EN 13528-2 UNE-EN 13528-3 ASTM D3687	GC/MS	F1, F2	F
Environmental Testing	Air	Total Hydrocarbons expressed as Hexane // Hydrocarbons no Methanes (HCNM)		GC/MS	F1, F2	F,



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Environmental Testing	Soils, Sediments and Sludges	total nitrogen Kjeldahl	ISO 11261 SM	Kjeldahl digester Kjeldahl distiller	F1, F2 F1,	F
Environmental Testing	Process Water	pH	4500-H+ B SM	Electrometric	F2 F1, F2	F
Environmental Testing	Process Water	Total Suspended Solids	2540 D SM	Gravimetric	F1, F2 F1,	F
Environmental Testing	Process Water	Oil and Grease	5520 B SM 5210	Gravimetric	F2 F1, F2	F
Environmental Testing	Process Water	Biochemical Oxygen Demand (BOD)	B SM 5220 D	Electrometric	F1, F2 F1,	F
Environmental Testing	Process Water	Chemical Oxygen Demand (COD)	NTP 214.060	UV-visible	F2, F3 F1,	F
Environmental Testing	Process Water	Caudal (Volumetric)	EPA Method 18 NTP 900.018	Volumetric method	F2, F3 F1,	O
Environmental Testing	Gaseous Emissions	Volatile Organic Compounds	EPA 8015 C	GC/MS	F2, F3	F
Environmental Testing	Soils, Sediments and Sludges	VOCs	EPA 8015 C	GC-FID		F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Total Petroleum Hydrocarbons (TPH)		GC-FID		F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Total Petroleum Hydrocarbons (TPH)				F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Dissolved or emulated Hydrocarbon, Mineral oil	EPA 8015 C	GC-FID	F1, F2	F





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Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Phenols	EPA 8270 E	GC/MS	F1, F2, F3	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Phthalate Esters	EPA 8270 E	GC/MS	F1, F2, F3	F
Environmental Testing	Air	Volatile Organic Compounds (VOCs)	ASTM D3687 ASTM D3686	GC/MS GC/MS	F1, F2, F3	F F
Environmental Testing	Air	Volatile Organic Compounds (VOCs)	ASTM D3687	Combustion Gas Analyzers	F1, F2, F3	F, O
Environmental Testing	Gaseous Emissions	Carbon monoxide (CO)	EPA Method 10	Calculation	F1, F2 F1,	F
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	N-NO <sub>3</sub> + N-NO <sub>2</sub> (calculation)	SML-01: Sum of Nitrates + Calculated Nitrites in Waters DS N° 004-2017-MINAM.		F2	
Environmental Testing	Wastewater, Natural Water, Water for use and Human Consumption, Salat Water and Process Water	Oxidation-Reduction Potential (ORP)	SM 2580-B	Electrometric	F1, F2	O
Electrical	Indoor and outdoor air	Non-ionizing radiation	UNE-EN 62110 IEC 61786-2 IEEE Std 644	Electromagnetic field meter	F1, F2, F5	O
Mechanical	Lighting	Interior Lighting	UNE-EN 12464-1 Part 1 UNE-EN 12464-2: Part 2	Light meter	F1, F2	O



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Mechanical	Buildings (ground surface) Occupational Health (in a worker)	Vibration environmental	DIN 4150-3 DIN 4150-2 DIN 4150-1 Parts 1-3	Vibrometer Seismograph	F1, F2, F5	O

FIELD OF SAMPLING	ITEMS, MATERIALS, OR PRODUCTS SAMPLED	TECHNIQUE OR METHOD USED	LOCATION OF ACTIVITY
Water for Subsequent Testing	Sampling in Wastewater, Natural Water, Water for use and Human Consumption, Saline Water and Process Water	<p>National Protocol for Monitoring the Quality of Surface Water Resources. Approved by Directorial Resolution No. 010-2016-ANA.</p> <p>Protocol of procedures for sampling, preservation, conservation, transportation, storage, and reception of water for human consumption. Approved by Directorial Resolution No. 160-2015/DIGESA/SA.</p> <p>Protocol for Monitoring the Quality of Effluents from Domestic or Municipal Wastewater Treatment Plants (WWTPs). Ministerial Resolution No. 273-2013-Housing.</p> <p>Protocol for Monitoring Effluents from Industrial Fishing Establishments for Direct and Indirect Human Consumption. Approved by Ministerial Resolution No. 061-2016-PRODUCE.</p> <p>Technical Guide "Procedure for Sampling Seawater at Bathing and Recreational Beaches." RM No. 553-2010/MINSA</p> <p>LAB-I-13.5: Sampling of Natural Waters</p> <p>LAB-I-13.6: Sampling of Wastewater</p> <p>LAB-I-13.7: Sampling of Water for Human Use and Consumption</p> <p>LAB-I-13.8: Saline Water Sampling</p> <p>LAB-I-13.18: Sampling of Process Waters</p>	O



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Soils for subsequent testing	Sampling in Soils, Sediments and Sludges	Soil Sampling Guide. Approved by Ministerial Resolution No. 065-2014-MINAM	O
Emissions for Subsequent testing	Sampling in Emissions	Isokinetic Sampler	O
Air for Subsequent Testing	Sampling in Air	National Protocol for Air Quality Monitoring. Approved by Supreme Decree No. 010-2019-MINAM	O

### 1. Location of activity:

#### Location Code

F	Conformity assessment activity is performed at the CAB's fixed facility
O	Conformity assessment activity is performed onsite at the CAB's customer location

### 2. Flex Code:

- F0: When no flexibility is identified. There are no changes to items tested, characteristics identified or versions of methods except for updating to the most recent version of a standard method after verification.
- F1: The laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope
- F2: The laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
- F3: The laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope
- F4: The laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
- F5: The laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope for the same parameter, component, or analyte identified on the line item of the scope.