



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

**CERTIMIN S.A.**

AVENIDA LAS VEGAS 845, SJM  
LIMA 15828, PERÚ

**Testing Laboratory TL-1051**

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 January 24, 2025



*International Accreditation Service*  
Issued under the authority of IAS management

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# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## CERTIMIN S.A.

[www.certimin.pe](http://www.certimin.pe)

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**Accredited to** ISO/IEC 17025:2017

**Effective Date** January 24, 2025

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
<b>ENVIRONMENTAL-ACUSTIC</b> (Sampling and Field Measurement)	Environmental Noise	Environmental Noise	NTP ISO 1996-1:2020. Acoustics. Description, measurement and assessment of environmental noise. Part 1: Basic quantities and assessment procedures / NTP ISO 1996-2:2023. Acoustics. Description, measurement and assessment of environmental noise. Part 2: Determination of sound pressure levels.
<b>ENVIRONMENTAL - ORGANIC</b> (Sampling and Analysis)	Air	Benzene (C <sub>6</sub> H <sub>6</sub> )	NTP 712.107:2020. ENVIRONMENTAL QUALITY MONITORING. Method of measuring the environmental concentration of benzene in ambient air. Part 2: Aspiration sampling followed by solvent desorption and gas chromatography
	Soils and Sediments	Polychlorinated biphenyls (PCBs): (PCB 28, PCB 52, PCB 101, PCB 118, PCB 153, PCB 138, PCB 180, PCB Total)	EPA Method 8270 E Rev. 06. 2018. Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
<b>ENVIRONMENTAL - INORGANIC</b> (Sampling and Field Measurement)	Natural water	Floating Material of Anthropogenic origin	IC-MON-087 Rev. 04 Qualitative Determination of Floating Material of anthropogenic origin based on the NMX-AA-006-SCFI-2010 standard (Validated. 2025)
	Wastewater, Natural Water, Water for Human use and consumption and Saline Water.	Dissolved Oxygen	NTP 214.046:2013 (Reviewed, 2018) WATER QUALITY. Determination of dissolved oxygen in water. Instrumental probe method. Sensor based on Luminescence 1 <sup>a</sup> Edition

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<b>ENVIRONMENTAL - INORGANIC</b> (Sampling and Field Measurement) (cont'd.)	Wastewater, Natural Water, Water for Human use and consumption and Saline Water. (cont'd.)	Oxidation - Reduction Potential (ORP).	SMEWW-APHA-AWWA-WEF Part 2580 B, 24th Ed. 2023. Oxidation - Reduction Potential (ORP). Oxidation - Reduction Potential Measurement in Clean Water.
	Air	Total Gaseous Mercury (Hg)	NTP 900.068: 2016/COR 1: 2017. Environmental Quality Monitoring. Air quality. Standardized method for the determination of total gaseous mercury.
		Meteorological parameters: Environmental Temperature, Relative humidity, Environmental pressure, Precipitation, Wind speed and Wind direction (Wind rose)	EPA-454/B-08-002 March 2008. Quality Assurance Handbook for Air Pollution Measurement Systems. Volume IV: Meteorological Parameters Measurements Version 2.0 (Final) modified according to Protocol of Meteorological Parameters IC-MON-009, rev. 08. (Validated, 2024)
<b>ENVIRONMENTAL - INORGANIC</b> (Sampling and Analysis)	Stationary source emissions	Particulate Matter (PM)	EPA 40 CFR, Part 60, Appendix A-3, Method 5. 2024 edition – Determination of particulate matter emissions from stationary sources
	Stationary source emissions (cont'd.)	Metals in emissions: Silver (Ag), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Copper (Cu), Manganese (Mn), Nickel (Ni), Phosphorus (P), Lead (Pb), Antimony (Sb), Selenium (Se), Thallium (Tl), Zinc (Zn).	EPA 40 CFR, Part 60, Appendix A-8, Method 29. 2024 edition – Determination of metals emissions from stationary sources
	Soils and Sediments	Organic matter	NOM-021-REC/NAT-2000 Salinity Specifications and Soil Classification. Studies, Sampling and Analysis. Section 7.1.7 Determination of Soil Organic Matter – Walkley Black Method modified according to Determination of Organic Matter in soils and sediments IC-MA-146, rev 02. (Validated, 2023)

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<b>ENVIRONMENTAL - INORGANIC</b> (Sampling and Analysis) (cont'd.)	Vegetable tissue	Total Metals in vegetable tissue: Antimony (Sb), Arsenic (As), Barium (Ba), Calcium (Ca), Cadmium (Cd), Chromium (Cr), Copper (Cu), Iron (Fe), Potassium (K), Magnesium(Mg), Manganese (Mn), Molybdenum (Mo), Sodium(Na), Nickel (Ni), Phosphorus (P), Lead (Pb),Strontium (Sr), Silver (Ag), Vanadium (V), Zinc (Zn).	EPA Method 200.3. Rev. 1. 1991. Sample preparation procedure for spectrochemical. Determination of total recoverable elements in biological Tissues modified according to Determination of Total Metals in plant tissue by ICP-OES IC-MA-147, rev.02 / EPA Method 200.7 Revision 4.4. 1994. Determination of metals and trace elements in water and wastes by inductively coupled plasma-atomic emission spectrometry (Validated, 2025).
	Wastewater, Natural Water, Water for Human use and consumption, Saline Water and Process Water	Total Oil and Grease (TOG)	ASTM D7066 -04 (Reapproved 2024). Standard Test Method for dimer/trimer of chlorotrifluoroethylene (S-316) Recoverable Oil and Grease and Nonpolar Material by Infrared Determination (Validated, 2024)
<b>ENVIRONMENTAL - INORGANIC</b> (Sampling and Field Measurement)	Stationary source emissions	Nitrogen Oxides (NOx), Nitric Dioxide (NO2), Nitric Oxide (NO), Carbon Monoxide (CO), Sulfur Dioxide (SO2), Hydrogen Sulfide (H2S) and Oxygen (O2)	EPA CTM-022. 1995. Determination of Nitric Oxide, Nitrogen Dioxide and NOx Emissions from Stationary Combustion Sources by Electrochemical Analyzer (Validated, 2024)
<b>ENVIRONMENTAL-ELECTROMAGNETIC RADIATION</b> (Sampling and Field Measurement)	Air	Non-Ionizing Electromagnetic Radiation:  Magnetic field intensity (H) Electric field intensity (E) Magnetic flux density (B)	IEEE STD 644. 2019. IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines.
<b>CHEMICAL TESTING</b>	Geochemical Exploration	Ag, Cu, Pb, Zn, Mo, As, Li	IC-VH-088 (Validated) Rev.07 Dec.2022 / Geochemical Exploration Samples: Multielemental Determination by ICP-OES/MS - Aqua Regia Digestion (HNO3 and HCl)

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<b>CHEMICAL TESTING</b> (cont'd.)	Geochemical Exploration (cont'd.)	Ag, Cu, Pb, Zn, Mo, As, Li	IC-VH-059 (Validated) Rev.11 Dec 2022 / Geochemical Exploration Samples: Multielemental Determination by ICPOES-MS Multiacid Digestion (HF, HClO <sub>4</sub> , HNO <sub>3</sub> and HCl).
		Ag, Cu, Pb, Zn, Mo, As	IC-VH-138 (Validated) Rev. 01 Aug. 2023: Geochemical Exploration Samples: Multielement Determination by ICP OES Multi-acid Digestion by Hot Block (HF, HClO <sub>4</sub> , HNO <sub>3</sub> and HCl).
		Ag, Cu, Pb, Zn, Mo, As, Li	IC-VH-139 (Validated) Rev. 01 Aug. 2023: Geochemical Exploration Samples: Multielement Determination by ICP OES-MS Multi-acid Digestion by Hot Block (HF, HClO <sub>4</sub> , HNO <sub>3</sub> and HCl).
	Bullion	Determination of Gold in Bullion	ASTM E1335-24 (Validated modified)/ IC-EF-014 Rev.13 Aug.2025/ Standard Test Methods for Determination of Gold in Bullion by Fire Assay Cupellation Analysis / Bullion Samples – Determination of Gold and/or Silver by Fire Assay
	Ore	Ag, Cu, Pb, Zn	IC-VH-134 (Validated) Rev.02 Dec. 2023: Ore Samples: Multielement Determination by ICP-OES Multi-acid Digestion (HF, HClO <sub>4</sub> , HNO <sub>3</sub> and HCl)