INTERNATIONAL ACCREDITATION SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

ENVIRONMENTAL TESTING LABORATORY S.A.C.

CALLE B MZ. C LT. 40 – URB. HABILITACIÓN INDUSTRIAL-PANAMERICANA NORTE-SAN MARTIN DE PORRES
LIMA, 051, PERU

Calibration Laboratory CL-269

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration 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 February 27, 2024

Expiration Date November 1, 2024

IAS ACCREDITED

President

IAS is an ILAC MRA Signatory

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

ENVIRONMENTAL TESTING LABORATORY S.A.C.

www.envirotest.com.pe

Contact Name Jessica Tapia **Contact Phone** +51 991843834

Accredited to ISO/IEC 17025:2017 *Effective Date February 27, 2024*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2,3] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Mechanical			
Particle Samplers: Mini Low Volume Low Volume (Low-Vol) Occupational Health	0.5 L/min to 30 L/min	0.14 L/min to 0.21 L/min	MV-LM-01 Procedure for the calibration of low volume particulate matter sampling equipment and rotameters, version 00 of 2022
Rotameters	0.1 L/min to 22 L/min	0.12 L/min	
High volume particulate matter samplers (HI-Vol)	0.9 m^3/min to 18 m^3/min	0.03 m^3/min	MV-LM-02 Procedure for the calibration of high-volume particulate matter sampling equipment, version 00 of 2022
Barometers & Meteorological Stations	800 mbar to 1100 mbar	0.79 mbar	PC-024 calibration of measurement instruments-absolute pressure. First edition 2018. INACAL
Liquid Column Manometer	0 inH_2O to 40 inH_2O	0.37 inH_2O	ME-021 procedure for the calibration of liquid columns (manometric & barometric). Digital edition 2, 2020. CEM Spain.
Isokinetic Sampler	Dry Gas Meter Calibration Factor Y: 1 ± 0.02 Orifice pressure differential ΔH@: 46.735 ± 6.4 mm H_2O By flow 8,28 L/min to 29,01 L/min	0.01 1 mmH_2O	MV-LM-03 Isokinetic Sampler Calibration ‘Procedure

** If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 “Guide for the Use of the International System of Units (SI)” apply.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2,3] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Thermal			
Digital Thermometer	-30 °C to 20 °C 5 °C to 200 °C	0.12 °C 0.19 °C	PC-017 procedure for calibrating digital thermometers
Thermo-hygrometer	20 %RH to 90 %RH 10 °C to 40 °C	3.6 %RH 0.34 °C	PC-026 procedure for the calibration of environmental meters and hygrometers, 2019. INACAL
Chemical/Gas			
Gas Analyzer Equipment CO NO SO_2 NO_2 H_2S NO_X O_3	 (100 to 1000) parts in 10^6 (100 to 1000) parts in 10^6 (100 to 1000) parts in 10^6 (2 to 200) parts in 10^6 (3 to 310) parts in 10^6 (100 to 1000) parts in 10^6 (1.4 to 450) parts in 10^9	 (5.9 to 16.5) parts in 10^6 (5.9 to 16.5) parts in 10^6 (5.9 to 16.5) parts in 10^6 (1.3 to 4.0) parts in 10^6 (1.8 to 5.4) parts in 10^6 (6.0 to 18) parts in 10^6 0.16 parts in 10^9	MV-LQ-01 Procedure for the calibration of gas analyzers, version 00 of 2022 (Dynamic dilution)
Gas Analyzer Equipment CO NO SO_2 NO_2 H_2S NOX O_2	 1001 parts in 10^6 996.2 parts in 10^6 993.6 parts in 10^6 200 parts in 10^6 310 parts in 10^6 996.6 parts in 10^6 20.62 %	 0.9 % 0.9 % 0.9 % 2.2 % 1.2 % 1.4 % 0.7 %	MV-LQ-02 Procedure for the calibration of gas analyzers, version 00 of 2022 (Direct comparison)
pH Meters	4 pH 7 pH 10 pH 14 pH	0.012 pH 0.012 pH 0.012 pH 0.012 pH	PC-020 procedure for the calibration of pH meters. Second edition 2017. INACAL
Conductivity Meters	1 µS/cm	0.62 uS/cm	PC-022 procedure for

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2,3] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
	1.5 µS/cm 5 µS/cm 10 µS/cm 50 µS/cm 100 µS/cm 1000 µS/cm 1400 µS/cm 1413 µS/cm 5000 µS/cm 10 000 µS/cm	0.62 uS/cm 0.62 uS/cm 0.62 uS/cm 1.5 uS/cm 2.1 uS/cm 4.8 uS/cm 5.0 uS/cm 5.0 uS/cm 30 uS/cm 40 uS/cm	the calibration of conductivity meters, second edition June 2023 INACAL
Dissolved Oxygen	0 mg/L to 8.3 mg/L	0.20 mg/L	MV-LQ-03 Dissolved oxygen meter calibration procedure, version 00 of 2022

[1]The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

[2]When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

[3]When uncertainty is stated as a range, uncertainties for the measurand at intermediate points can be determined by linear interpolation.