

CERTIFICATE OF ACCREDITATION

This is to attest that

CORPORACIÓN DE LABORATORIOS ANALÍTICOS S.A.C. (CORLAN S.A.C.)

AV. SANTA ROSA NRO. 319. MZ B LT 6 – SANTA CLARA - ATE VITARTE LIMA / ATE-VITARTE, 03, REPUBLIC OF PERÚ

Testing Laboratory TL-1096

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.

Expiry Date September 1, 2024 Effective Date September 27, 2023

IAS ACCREDITED

President

IAS is an ILAC MRA Signatory

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International Accreditation Service, Inc.

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CORPORACIÓN DE LABORATORIOS ANALÍTICOS S.A.C. (CORLAN S.A.C.)

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Accredited to ISO/IEC 17025:2017

Effective Date September 27, 2023

FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL – Air Gas determination – Automatic Equipment	Air Sampling & Test (field measurement)	Determination of Hydrogen Sulfide (H2S)	Referenced in NTP ISO 10498: 2017. Determination of sulfur dioxide. Ultraviolet fluorescence method (Validated)
		Determination of Sulfur Dioxide (SO2)	Referenced in NTP ISO 10498: 2017. Determination of sulfur dioxide. Ultraviolet fluorescence method
		Determination of Carbon Monoxide (CO)	NTP-ISO 4224:2019 Ambient air. Determination of carbon monoxide. Non-dispersive infrared spectrometry method. 1st Edition 2020
		Determination of Ozone (O3)	NTP-ISO 13964:2020 Air quality. Determination of ozone in ambient air. Ultraviolet photometric method
		Determination of Nitrogen Dioxide (NO2)	NTP-ISO 7996:2019. Ambient air. Determination of the mass concentration of nitrogen oxides. Chemiluminescence method
		Determination of Nitrogen oxides (NO and NOx)	NTP-ISO 7996:2019. Ambient air. Determination of the mass concentration of nitrogen oxides. Chemiluminescence method (Validated)
ENVIRONMENTAL – Air Particulate Matter – Gravimetric	Air (Sampling & Analysis)	Determination PM-2.5 Low Volume Particulate Matter, in ug/m3 (Includes Sampling & analysis)	EPA CFR 40, Part 50 Appendix L: 2018
		Weighing Determination PM-2.5 Low Volume Filter,	IV09-CL-250522 (validated)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
ENVIRONMENTAL - Air Particulate Matter - Gravimetric (cont'd.)	Air (Sampling & Analysis) (cont'd.)	ug/filter (Environmental Filter-Only Analysis)	EPA CFR 40, Part 50 Appendix L: 2018
			EPA Compendium Method IO- 2.3 EPA Compendium Method IO- 3.1
		Weighing Determination PM-10 Low Volume Filter, ug/filter (Environmental Filter-Only Analysis)	IV10-CL-270522 (validated) EPA-Compendium Method IO- 3.1
		Determination PM-10 High Volume Particulate Matter, in ug/m3 (Includes Sampling & analysis)	EPA Compendium Method IO-2.1 EPA Compendium Method IO- 3.1
		Weighing Determination PM-10 High Volume Filter, ug/filter (Environmental Filter-Only Analysis)	IV11-CL-290522 (validated) EPA-Compendium Method IO- 3.1
ENVIRONMENTAL – Air Environmental noise Electrometric	Air Sampling & Test (field measurement)	Environmental noise	NTP ISO 1996-1:2020 NTP ISO 1996-2:2021
Electrometric	Gaseous Emissions Sampling & Test (field measurement) -Natural gas -Liquefied Petroleum Gas (GLP) -Diesel -Solid fuel	Nitrogen Oxides Nitric Oxide (NO) Nitrogen Dioxide (NO2) Nitrogen Oxides (NOx)	EPA CTM-022 Determination of Nitric Oxide, Nitrogen Dioxide and NOx Emissions from Stationary Combustion Sources by electrochemical analyzer. 1995
		Carbon Monoxide (CO)	EPA 40 CFR, Appendix A-4 to Part 60, Method 10. Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analizer Procedure). 2017
		Oxygen (O2) Carbon Monoxide (CO)	CTM-030: Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources for Periodic Monitoring (Portable Electrochemical Analyzer Procedure
		Sulfur dioxide (SO2)	EPA-40 CFR, Appendix A-4 to Part 60. Method 6C. Determination of sulfur dioxide emissions from stationary sources (instrumental analyzer procedure). 2017



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FIELDS OF	MATERIAL/	DETERMINANT(S)/	METHOD
TESTING	MATRIX	ANALYTE(S)	REFERENCE
ENVIRONMENTAL Water –	Water	Conductivity Electrometric Method	SM 2510 B. / 24th Edition / 2023
Field Methods	Wastewater Natural Water Drinking Water Salt Water Process Water	Oxygen Disolved Membrane Electrode Method	SM 4500-O G. / 24th Edition / 2023
		pH Value Electrometric Method.	SM 4500-H+ B. / 24th Edition / 2023
	Sampling & Test (field measurement)	Salinity Electrical Conductivity Method	SM 2520 B. / 24th Edition / 2023
		Temperature Laboratory and Field Methods	SM 2550 B. / 24th Edition / 2023
		Free Chlorine (Residual) DPD Colorimetric Method	SM 4500-Cl G. / 24th Edition / 2023 Method DPD_DOC316.53.01449
		Total Chlorine DPD Colorimetric Method	SM 4500-Cl G. / 24th Edition / 2023 Method DPD_DOC316.53.01449
ENVIRONMENTAL – CLIMATOLOGY	Meteorological Parameters Sampling & Test (field measurement)	Temperature Humidity Atmospheric pressure Wind-speed Direction of the wind Precipitation	M-GCI-M-M015. Methodology of the Operation of Statistics of Meteorological Variables (IDEAM)
OCCUPATIONAL HEALTH – Occupational noise	Occupational noise Sampling & Test (field measurement)	Occupational noise Dosimetry Occupational noise Sonometry	NTP ISO 9612:2010 (Revision 2020). Acoustics – Determination of occupational noise exposure – Engineering method
OCCUPATIONAL HEALTH Particulate Matter – Gravimetric	Indoor Aire (Sampling & Analysis)	Determination Respirable Particles, in mg/m3 (Includes Sampling & analysis)	NIOSH 0600. Issue 3
		Weighing Determination Respirable Particles mg/filter (PVC Membrane Filter -Only Analysis)	IV13-CL-220522 NIOSH 0600. Issue 3
		Determination Total or Inhalable, in mg/m3 (Includes Sampling & analysis)	NIOSH 0500. Issue 2
		Weighing Determination Total or Inhalable, in mg/filter (PVC Membrane Filter -Only Analysis)	IV14-CL-250522 NIOSH 0500. Issue 2

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	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
MAGNETIC FIELD LEVELS GENERATED	Sampling & Test	Magnetic Field Strength (A/m) Power Density (W/m2)	IEEE STD. 644.2019. IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines
HEALTH & SAFETY - PHYSICAL	Indoor and outdoor air Sampling & Test (field measurement)	Electric field intensity (V/m) Magnetic Field Strength (A/m) Power Density (W/m2) Magnetic Flux Density (uT)	UNE-EN 62110_2013 / AC: 2015 Electric and magnetic field levels generated by alternate power systems. Measurement procedures with regard to public exposure