

# 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, 2025  
Effective Date September 27, 2023



A handwritten signature in black ink, reading 'Rey Nathan'.

**President**

IAS is an ILAC MRA Signatory

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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

**Contact Name** Alfonso Vilca

**Contact Phone** +51 01-3438740

*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)	<b>Determination of Hydrogen Sulfide (H<sub>2</sub>S)</b>	Referenced in NTP ISO 10498: 2017. Determination of sulfur dioxide. Ultraviolet fluorescence method (Validated)
		<b>Determination of Sulfur Dioxide (SO<sub>2</sub>)</b>	Referenced in NTP ISO 10498: 2017. Determination of sulfur dioxide. Ultraviolet fluorescence method
		<b>Determination of Carbon Monoxide (CO)</b>	NTP-ISO 4224:2019 Ambient air. Determination of carbon monoxide. Non-dispersive infrared spectrometry method. 1st Edition 2020
		<b>Determination of Ozone (O<sub>3</sub>)</b>	NTP-ISO 13964:2020 Air quality. Determination of ozone in ambient air. Ultraviolet photometric method
		<b>Determination of Nitrogen Dioxide (NO<sub>2</sub>)</b>	NTP-ISO 7996:2019. Ambient air. Determination of the mass concentration of nitrogen oxides. Chemiluminescence method
		<b>Determination of Nitrogen oxides (NO and NO<sub>x</sub>)</b>	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)	<b>Determination PM-2.5 Low Volume Particulate Matter, in ug/m<sup>3</sup> (Includes Sampling &amp; analysis)</b>	EPA CFR 40, Part 50 Appendix L: 2018
		<b>Weighing Determination PM-2.5 Low Volume Filter,</b>	IV09-CL-250522 (validated)

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<b>ENVIRONMENTAL – Air Particulate Matter – Gravimetric (cont'd.)</b>	Air (Sampling & Analysis) (cont'd.)	ug/filter (Environmental Filter-Only Analysis)	EPA CFR 40, Part 50 Appendix L: 2018
		<b>Determination PM-10 Low Volume</b> Particulate Matter, in ug/m3 (Includes Sampling & analysis)	EPA Compendium Method IO-2.3 EPA Compendium Method IO-3.1
		<b>Weighing Determination PM-10 Low Volume Filter</b> , ug/filter (Environmental Filter-Only Analysis)	IV10-CL-270522 (validated) EPA-Compendium Method IO-3.1
		<b>Determination PM-10 High Volume</b> Particulate Matter, in ug/m3 (Includes Sampling & analysis)	EPA Compendium Method IO-2.1 EPA Compendium Method IO-3.1
		<b>Weighing Determination PM-10 High Volume Filter</b> , ug/filter (Environmental Filter-Only Analysis)	IV11-CL-290522 (validated) EPA-Compendium Method IO-3.1
<b>ENVIRONMENTAL – Air Environmental noise Electrometric</b>	Air Sampling & Test (field measurement)	<b>Environmental noise</b>	NTP ISO 1996-1:2020 NTP ISO 1996-2:2021
<b>EMISSIONS Gaseous – Electrometric</b>	Gaseous Emissions Sampling & Test (field measurement)  -Natural gas -Liquefied Petroleum Gas (GLP) -Diesel -Solid fuel	<b>Nitrogen Oxides</b>  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
		<b>Carbon Monoxide (CO)</b>	EPA 40 CFR, Appendix A-4 to Part 60, Method 10. Determination of Carbon Monoxide Emissions from Stationary Sources (Instrumental Analyzer Procedure). 2017
		<b>Oxygen (O2)</b> <b>Carbon Monoxide (CO)</b>	CTM-030: Determination of Oxygen, Carbon Monoxide and Oxides of Nitrogen from Stationary Sources for Periodic Monitoring (Portable Electrochemical Analyzer Procedure)
		<b>Sulfur dioxide (SO2)</b>	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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<b>ENVIRONMENTAL Water –</b> Field Methods	Water  Wastewater Natural Water Drinking Water Salt Water Process Water  Sampling & Test (field measurement)	<b>Conductivity</b> Electrometric Method	SM 2510 B. / 24th Edition / 2023
		<b>Oxygen Disolved</b> Membrane Electrode Method	SM 4500-O G. / 24th Edition / 2023
		<b>pH Value</b> Electrometric Method.	SM 4500-H+ B. / 24th Edition / 2023
		<b>Salinity Electrical</b> Conductivity Method	SM 2520 B. / 24th Edition / 2023
		<b>Temperature</b> Laboratory and Field Methods	SM 2550 B. / 24th Edition / 2023
		<b>Free Chlorine (Residual)</b> DPD Colorimetric Method	SM 4500-Cl G. / 24th Edition / 2023 Method DPD_DOC316.53.01449
		<b>Total Chlorine</b> DPD Colorimetric Method	SM 4500-Cl G. / 24th Edition / 2023 Method DPD_DOC316.53.01449
<b>ENVIRONMENTAL – CLIMATOLOGY</b>	<b>Meteorological Parameters</b>  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)
<b>OCCUPATIONAL HEALTH – Occupational noise</b>	<b>Occupational noise</b>  Sampling & Test (field measurement)	<b>Occupational noise</b> Dosimetry  <b>Occupational noise</b> Sonometry	NTP ISO 9612:2010 (Revision 2020). Acoustics – Determination of occupational noise exposure – Engineering method
<b>OCCUPATIONAL HEALTH Particulate Matter –</b> Gravimetric	Indoor Aire (Sampling & Analysis)	<b>Determination Respirable Particles</b> , in mg/m <sup>3</sup> (Includes Sampling & analysis)	NIOSH 0600. Issue 3
		<b>Weighing Determination Respirable Particles</b> mg/filter (PVC Membrane Filter -Only Analysis)	IV13-CL-220522 NIOSH 0600. Issue 3
		<b>Determination Total or Inhalable</b> , in mg/m <sup>3</sup> (Includes Sampling & analysis)	NIOSH 0500. Issue 2
		<b>Weighing Determination Total or Inhalable</b> , in mg/filter (PVC Membrane Filter -Only Analysis)	IV14-CL-250522 NIOSH 0500. Issue 2

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<b>ELECTRIC AND MAGNETIC FIELD LEVELS GENERATED BY AC POWER SYSTEMS</b>	<b>Indoor and outdoor air</b>  Sampling & Test (field measurement)	Electric field intensity (V/m) Magnetic Field Strength (A/m) Power Density (W/m <sup>2</sup> ) Magnetic Flux Density (uT)	IEEE STD. 644.2019. IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines
<b>OCCUPATIONAL HEALTH &amp; SAFETY - PHYSICAL MEASUREMENTS</b>	<b>Indoor and outdoor air</b>  Sampling & Test (field measurement)	Electric field intensity (V/m) Magnetic Field Strength (A/m) Power Density (W/m <sup>2</sup> ) 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