



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **BIODIVERSA S.A LABORATORIO LA SERENA**

AV. ALBERTO ARENAS CARVAJAL 2467 – LA SERENA  
COQUIMBO, 1721731, CHILE

### **Testing Laboratory TL-1211**

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 April 1, 2025

Effective Date March 4, 2024



*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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## BIODIVERSA S.A LABORATORIO LA SERENA

[www.biodiversa.com](http://www.biodiversa.com)

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**Contact Phone** +56 942223009

*Accredited to ISO/IEC 17025:2017*

*Effective Date March 4, 2024*

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Environmental Microbiology	Fecal Coliforms	Sludge	INS.TEC-041 (version 01) based on Standard Methods for the Examination of Water and Wastewater, 24th Edition 2022, 9221-E and Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
Environmental Inorganic	Arsenic	Sludge	INS.TEC-032 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Cadmium	Sludge	INS.TEC-035 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Copper	Sludge	INS.TEC-033 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Mercury	Sludge	INS.TEC-034 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Nickel	Sludge	INS.TEC-033 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Lead	Sludge	INS.TEC-033 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Selenium	Sludge	INS.TEC-032 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Zinc	Sludge	INS.TEC-033 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Total solids	Sludge	INS.TEC-039 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Total volatile solids	Sludge	INS.TEC-039 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	% Humidity	Sludge	INS.TEC-039 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Organic matter	Sludge	INS.TEC-038 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Electric conductivity and pH	Sludge	INS.TEC-036 (version 01) based on Protocol of analysis methods for soils and sludge, 2017 and Recommended soil analysis methods for the soils of Chile. 2006 revision.
	Oils and fats	Wastewater	NCh2313/6: 2015 Wastewater - Methods of Analysis - Part 6: Determination of Oils and Greases (Partition-Infrared Method)

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FIELDS OF TESTING	MATERIAL/ MATRIX	DETERMINANT(S)/ ANALYTE(S)	METHOD REFERENCE
Environmental Inorganic (cont'd.)	Anionic Surfactants	Wastewater	NCh2313/27.Of1998 Wastewater - Methods of Analysis - Part 27: Determination of Anionic Surfactants - Method for Methylene Blue Active Substances (SAAM)
	Anionic Surfactants	Wastewater, surface water, groundwater and sea water.	Standard Methods for the examination of Water and Wastewater, 24th Edition 2022, 5540 B and C
	Total Kjeldahl nitrogen	Wastewater	NCh2313/28 – 2009 Wastewater - Methods of Analysis - Part 28: Determination of Kjeldahl Nitrogen - Potentiometric Method with Predigesting
	Total kjeldahl nitrogen	Wastewater, surface water, groundwater and sea water	Standard Methods for the Examination of Water and Wastewater, 24th Edition 2022, 4500-N org B
	Biochemical Oxygen Demand	Wastewater, surface water, groundwater and sea water	Standard Methods for the Examination of Water and Wastewater, 24th Edition 2022, 5210 B.
	Chemical Oxygen Demand	Wastewater, surface water, groundwater and sea water	Standard Methods for the Examination of Water and Wastewater, 24 <sup>th</sup> Edition 2022, 5220 D
	Total suspended solids	Wastewater, surface water, groundwater and sea water	Standard Methods for the Examination of Water and Wastewater, 24 <sup>th</sup> Edition 2022, 2540 D.
	Total dissolved solids	Wastewater, surface water, groundwater and sea water	Standard Methods for the Examination of Water and Wastewater, 24th Edition 2022, 2540 C.
	Phosphorus	Wastewater, surface water, groundwater and sea water	Standard Methods for the Examination of Water and Wastewater, 24 <sup>th</sup> Edition 2022, 4500-P C.
	Foaming powder	Wastewater, surface water, groundwater and sea water	ISO696:1975 Surface active agents Measurement of foaming power Modified Ross-Miles method
	Chloride	Groundwater, Surface Water and Wastewater	Standard Methods for the Examination of Water and Wastewater, 24th Edition 2022, 4500-Cl B.

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