



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **LABORATORIO ROBOTIZADO GEOASSAY SANTIAGO**

AV. AMERICO VESPUCIO ORIENTE #1273, PUDAHUEL  
SANTIAGO, 9020000, REPUBLIC OF CHILE

### **Testing Laboratory TL-1003**

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 August 25, 2023



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

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## LABORATORIO ROBOTIZADO GEOASSAY SANTIAGO

[www.geoassay.cl](http://www.geoassay.cl)

**Contact Name** Solange Henríquez

**Contact Phone** +56-958386756

*Accredited to ISO/IEC 17025:2017*

*Effective Date August 25, 2023*

FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
Mining & Geology – Chemistry	Minerals and Ores	Determination of Copper in Copper Concentrate by Titrimetric methods.	<b>PT-LB-CON-SCL-001</b> <b>ISO 10258</b> Copper sulfide concentrates – Determination de cooper content – Titrimetric methods.
		Determination of Iron in Copper Concentrate by Atomic Absorption.	<b>PT-LB-CON-SCL-004</b> Harris.D, Análisis Químico cuantitativo. Burriel F. Química Analítica Cualitativa. Ed. Thompson. 2008. Skoog. Douglas A, Fundamentos de Química Analítica, vol 2, Ed. Reverté 2001. SO/WD 20212-1 Copper, lead, zinc and nickel — Sampling Procedures — Part 1: Ores
		Determination of Molybdenum in Copper minerals by Atomic Absorption.	<b>PT-LB-MIN-SCL-002</b> Harris.D, Análisis Químico cuantitativo. Burriel F. Química Analítica Cualitativa. Ed. Thompson. 2008. Skoog. Douglas A, Fundamentos de Química Analítica, vol 2, Ed. Reverté 2001. SO/WD 20212-1 Copper, lead, zinc and nickel — Sampling Procedures — Part 1: Ores
		Determination of Copper and Iron in Copper Minerals by Atomic Absorption.	<b>PT-LB-MIN-SCL-001</b> Harris.D, Análisis Químico cuantitativo. Burriel F. Química Analítica Cualitativa. Ed. Thompson. 2008. Skoog. Douglas A, Fundamentos de Química

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FIELDS OF TESTING	MATERIAL/MATRIX	DETERMINANT(S)/ANALYTE(S)	METHOD REFERENCE
<b>Mining &amp; Geology – Chemistry</b> continued	Minerals and Ores continued		Analítica, vol 2, Ed. Reverté 2001. ISO/WD 20212-1 Copper, lead, zinc and nickel — Sampling Procedures — Part 1: Ores
		Determination of Molybdenum in Molybdenum Concentrate by gravimetric methods.	<b>PT-LB-CON-SCL-002</b> Assaying Molybdenite Concentrates The International Molybdenum Association (2003).
		Determination of Molybdenum in Copper Concentrate by Atomic Absorption.	<b>PT-LB-CON-SCL-003</b> Assaying Molybdenite Concentrates The International Molybdenum Association (2003).
		Determination of Iron and Zinc in Concentrate Copper by Atomic Absorption	<b>PT-LB-CON-SCL-004</b> Determination of Iron and Zinc in Concentrate Copper by Atomic Absorption
		Determination of Silver and Lead in Copper Concentrate by Atomic Absorption.	<b>PT-LB-CON-SCL-006</b> Determination of Silver, Cobalt and Lead in Copper Concentrate by Atomic Absorption
		Determination of Arsenic in Copper Concentrate by Atomic Absorption.	<b>PT-LB-MIN-SCL-007</b> Determination of Arsenic in Copper Concentrate by Atomic Absorption.
		Determination of Antimony of aqua regia digestion in Copper Concentrate by Atomic Absorption.	<b>PT-LB-MIN-SCL-008</b> Determination of Antimony of aqua regia digestion in Copper Concentrate by Atomic Absorption.
		Determination of Mercury aqua regia digestion in Copper Concentrate by ICP-OES.	<b>PT-LB-MIN-SCL-010</b> Determination of Mercury aqua regia digestion in Copper Concentrate by ICP-OES.