

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 670

Legal Name of Accredited Laboratory: **ALS PERU S.A.**

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SCC File Number:	15834
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Chemical/Physical
Program Specialty Area:	Mineral Analysis
Initial Accreditation:	2010-03-01
Most Recent Accreditation:	2021-09-29
Accreditation Valid to:	2026-03-01

The physical sample preparation involving accredited test method for Minerals Analysis as listed on the Scope of Accreditation may be performed at the ALS Minerals Lima location or at ALS Minerals off-site sample preparation laboratories that are monitored regularly for quality control and quality assurance practices:

Argentina - Altos Hornos Zapla 1605, Godoy Cruz, Mendoza, Argentina

Brazil - Av. Anhanguera, 15060, Quadra 25, Lote 11E, Setor Santos Dumont, Goiânia, Goiás 74463-350 Brasil

Brazil - Rua São Paulo, 685, Vespasiano, Minas Gerais 33200 000 Brasil
Brazil - Rua K 346, Galpão 1, Distrito Industrial, Cuiaba, Mato Grosso
Brazil - Avenida B, SN – Q 08G, Lote 1, 2,18,19,20,21,22, Cidade Jardim, Parauapebas, Pará
Chile - Hermanos Carrera Pinto 159, Parque Industrial Los Libertadores, Colina Santiago Chile
Chile - Ruta 5 Norte Km 813,6 Acerca Sur N° 2391. Copiapo, Región de Atacama Chile
Chile - Avenida La Fragua 1130, Barrio Industrial Chanar, Coquimbo, Región de Coquimbo Chile
Columbia - Carrera 48B No. 99, Sur-59, Bodega San Bartolomé, Bodega 3, Medellín, Antioquia Colombia
Ecuador - Av. Jose Andrade OE1-386 y Av. Juan de Selis, Sector Carcelen Industrial, Quito, Pichincha Ecuador
Peru - Urb. Industrial El Cairo Manzana A, Lote 3, Distrito de Paucarpata, Arequipa Peru
Peru - Calle A Mz C SubLote 2A, Urb.Industrial, Bocanegra, Callao 1 Peru

METALLIC ORES AND PRODUCTS

Mineral Analysis Testing

Mineral Assaying

ME-XRF12u / ME-XRF12n*	Analysis of Nickel Laterite Sample by Fusion/XRF (Al ₂ O ₃ , CaO, Co, Cr ₂ O ₃ , Cu, Fe ₂ O ₃ , K ₂ O, MgO, MnO, Na ₂ O, Ni, P ₂ O ₅ , Pb, SiO ₂ , TiO ₂ , Zn, Total)
AA45	Ag, Cu, Pb and Zn - Determination of Base Metals Using AAS Following an Aqua Regia Digestion
AA46	Ag, Cu, Pb, Zn and Mo - Determination of Ores and High Grade Materials Using AAS Following an Aqua Regia Digestion
AA61	Ag, Mo, Cu, Ni, Pb and Zn - Determination of Base Metals Using AAS Following a Four Acid Digestion
AA62	Ag, Cu, Mo, Ni, Pb and Zn - Determination of Ores and High Grade Materials Using AAS Following a Four Acid Digestion
Au/Ag-GRA	Determination of Au and Ag by Lead Collection Fire Assay and Gravimetric Finish
Au-AA	Determination of Au by Lead Collection Fire Assay and Atomic Absorption Spectrometry
ICP81	Al, Co, Cu, Fe, Mg, Mn, Ni, Pb, S, and Zn by Sodium Peroxide Fusion and ICP-AES
ME-ICP41	Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Th, Ti, Tl, U, V, W, Zn) Determination by Aqua Regia Digestion and ICP-AES
ME-ICP61	Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4-Acid Digestion and ICP-AES
ME-MS41	Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by Aqua Regia Digestion and ICP-AES and ICP-MS

ME-MS61	Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Ge, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, Re, S, Sb, Sc, Se, Si, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4 Acid Digestion and ICP-AES and ICP-MS
ME-XRF13u / ME-XRF13n*	Analysis of Bauxite Samples by Fusion/XRF (Al ₂ O ₃ , BaO, CaO, Cr ₂ O ₃ , Fe ₂ O ₃ , K ₂ O, MgO, MnO, Na ₂ O, P ₂ O ₅ , SO ₃ , SiO ₂ , SrO, TiO ₂ , V ₂ O ₅ , Zn, ZrO, Total)
ME-XRF21u / ME-XRF21n*	Analysis of Iron Ore samples by Fusion/XRF (Al ₂ O ₃ , As, Ba, CaO, Cl, Co, Cr ₂ O ₃ , Cu, Fe, K ₂ O, MgO, Mn, Na ₂ O, Ni, P, Pb, S, SiO ₂ , Sn, Sr, TiO ₂ , V, Zn, Zr, Total)
ME-XRF24	Analysis of Phosphate by Fusion/XRF (Al ₂ O ₃ , CaO, Fe ₂ O ₃ , K ₂ O, MgO, MnO ₂ , Na ₂ O, P ₂ O ₅ , SiO ₂ , TiO ₂ , Total)
ME-XRF26	Whole Rock Analysis by Fusion/XRF (Al ₂ O ₃ , BaO, CaO, Cr ₂ O ₃ , Fe ₂ O ₃ , K ₂ O, MgO, MnO, Na ₂ O, P ₂ O ₅ , SiO ₂ , SrO, TiO ₂ , Total)
OA-GRA05x	Manual Loss on Ignition (LOI) at 1000 °C for XRF Methods
OG46	Ag, Cu, Mo, Pb and Zn - Determination of Ores and High Grade Material Using ICP-AES Following an Aqua Regia Digestion
OG62	Ag, Cu, Co, Mo, Ni, Pb and Zn-Determination of Ores and High Grade Material Using ICP-AES Following a Four-Acid Digestion
PGM-ICP	Determination of Au, Pt and Pd by Lead Collection Fire Assay and ICP-AES - Following Microwave Digestion

Number of Scope Listings: 20

Notes:

RG-Mineral: SCC Requirements and Guidance for the Accreditation of Mineral Analysis Testing Laboratories

* **Two method sub-codes:** Suffixes n and u designate normalized and un-normalized results, respectively.

* These test methods can be performed on-site as per RG-On-Site-Testing. (Please mark with asterisk the test methods that can be performed on-site)



This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

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