



CERTIFICATE OF ACCREDITATION

This is to attest that

MSALABS INC.

UNIT 1-20120 102 AVENUE
LANGLEY, BRITISH COLUMBIA, V1M 4B4, CANADA

Testing Laboratory TL-736

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 September 7, 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

MSALABS INC.

Contact Name Vanessa Claassen

Contact Phone +27827875247

Accredited to ISO/IEC 17025:2017

Effective Date September 7, 2023

CHEMISTRY - MINING	
FAS-111	Au, 30g Fire Assay, AAS finish, Trace Level
FAS-113	Au, Pt, Pd, 30g Fire Assay, ICP-ES finish, Trace Level
FAS-114	Au, 30g Fire Assay, ICP-ES finish, Trace Level
FAS-121	Au, 50g Fire Assay, AAS finish, Trace Level
FAS-123	Au, Pt, Pd, 50g Fire Assay, ICP-ES finish, Trace Level
FAS-124	Au, 50g Fire Assay, ICP-ES finish, Trace Level
FAS-211	Au, 30g Fire Assay, AAS finish, Ore Grade
FAS-213	Au, Pt, Pd, 30g Fire Assay, ICP-ES finish, Ore Grade
FAS-214	Au, 30g Fire Assay, ICP-ES finish, Ore Grade
FAS-221	Au, 50g Fire Assay, AAS finish, Ore Grade
FAS-223	Au, Pt, Pd, 50g Fire Assay, ICP-ES finish, Ore Grade
FAS-224	Au, 50g Fire Assay, ICP-ES finish, Ore Grade
FAS-415	Au, 30g Fire Assay, Gravimetric finish, Ore Grade
FAS-418	Ag, 30g Fire Assay, Gravimetric finish, Ore Grade
FAS-425	Au, 50g Fire Assay, Gravimetric finish, Ore Grade
ICA-5xx	Individual or selected elements of ICP-130 package
ICA-6xx	ICP-140 single element, xx denotes element code
ICF-5xx	Individual or selected elements of ICP-230 package
ICF-6xx	ICP-240 individual element, xx denotes element code
ICP-130	0.5g true Aqua Regia, ICP-ES finish, Basic Level
ICP-135	ICP-130 package + Hg by ICP-MS (36 elements)
ICP-140	0.4g true Aqua Regia, ICP-ES finish, Ore Grade (33 elements)
ICP-230	0.25g 4-Acid Digestion, ICP-ES finish (34 elements)
ICP-235	ICP-230 multi-element package + Hg by IMS-130
ICP-240	0.5g 4-Acid digestion, ICP-ES finish, Ore Grade (30 elements)
IMA-2xx	Individual or selected elements of IMS-131 package
IMA-4xx	Individual or selected elements of IMS-132 package

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IMA-5xx	Individual or selected elements of IMS-130 package
IMF-5xx	Individual or selected elements of IMS-230 package
IMS-3xx	Lithium Borate fusion, Rare Earth Elements, ICP-MS finish (Single element on IMS-300)
IMS-111	20g dilute Aqua Regia, ICP-ES/MS finish, Ultra Trace Level (51 elements)
IMS-112	40g dilute Aqua Regia, ICP-ES/MS finish, Ultra Trace Level (51 elements)
IMS-130	0.5g true Aqua Regia, ICP-ES/MS finish, Ultra Trace Level (51 elements)
IMS-131	20g true Aqua Regia, ICP-ES/MS finish, Ultra Trace Level (51 elements)
IMS-132	40g true Aqua Regia, ICP-ES/MS finish, Ultra Trace Level (51 elements)
IMS-230	0.25g 4-Acid Digestion, ICP-ES/MS finish, Ultra Trace Level (48 elements)
IMS-235	IMS-235 package + Hg by ICP-MS (49 elements)
IMS-300	Lithium Borate fusion, Rare Earth Elements, ICP-MS finish (30 elements)
IMS-310	Lithium Borate fusion, Rare Earth Elements, ICP-MS finish (Selective elements on IMS-300)
IMS-330	Vegetation, Aqua regia digestion, ICP-ES/MS finish, Ultra Trace Level (51 elements)
LOI-550	Loss On Ignition (Gravimetric)
LOI-1000	Loss On Ignition (Gravimetric)
MSC-130	1000g Metallic screen, 30g Fire Assay, minus fraction in duplicate by FAS-111 or FAS-211, plus fraction by FAS-415
MSC-150	1000g Metallic screen, 50g Fire Assay, minus fraction in duplicate by FAS-121 or FAS-221, plus fraction by FAS-425
MSC-530	500g Metallic screen, 30g Fire Assay, minus fraction in duplicate by FAS-111 or FAS-211, plus fraction by FAS-415
MSC-550	500g Metallic screen, 50g Fire Assay, minus fraction in duplicate by FAS-121 or FAS-221, plus fraction by FAS-425
PER-700	Peroxide fusion, ICP-ES finish (18 elements)
PER-7xx	Individual or selected elements of PER-700 package
SPG-410	Specific gravity by weight on core
SPG-411	Specific gravity by weight on pulp
SPG-415	Specific gravity by weight on waxed core
SPM-110	Total C, Induction Furnace
SPM-120	Total Inorganic C with graphite correction
SPM-210	Total S, Induction Furnace
SPM-512	Total C & S, Induction Furnace
STI-8Cu	Copper by titration

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STI-8Fe	Iron by titration
STI-8FeO	Ferrous iron by titration
STI-8Pb	Lead by titration
STI-8Zn	Zinc by titration
WRA-3xx	Individual or selected elements of WRA-310 package
WRA-310	Whole rock by Borate fusion, ICP-ES finish + LOI (13 elements + LOI)
WRA-311	WRA-310 + C&S
WRA-330	WRA-311 + IMS-300
WRA-340	WRA-330 + IMS-130 or IMA-5xx, xx denotes element code
WRA-360	WRA-330 + IMA-5xx + IMF-5xx, xx denotes element code
WRX-3xx	Individual or selected elements of WRX-310 package
WRX-4xx	Borate fusion, Resistive minerals by, XRF finish (Individual element), xx denotes element code
WRX-310	Whole rock by Borate fusion, XRF finish + LOI (14 elements + LOI)
WRX-311	WRX-310 + C&S
WRX-610	Borate fusion, Iron Ore, XRF finish (24 elements + LOI)