



## SCOPE OF ACCREDITATION

**COREM  
ANALYTICAL SERVICES LABORATORY  
1180, rue de la Minéralogie  
Québec, QC  
G1N 1X7**

Accredited Laboratory No. 13  
(Conforms with requirements of ISO/IEC 17025:2005)

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CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Chemical/Physical

INITIAL ACCREDITATION DATE: 1984-08-15

SCOPE ISSUED ON: 2019-03-13

ACCREDITATION VALID TO: 2021-06-01

**Remarque:** La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.

**Note:** This scope of accreditation is also available in French as a separately issued document.

### **METALLIC ORES AND PRODUCTS**

#### **Metallic Ores:**

#### **Rocks and Ores**

LSA-M-A25 Determination of Major and Minor Elements (Si, Al, Fe, Mg, Ca, Na, K, Ti, Mn, P, Cr, V, Zr and Zn) in Various Mineral Matrices Using X-ray Fluorescence (XRF) Spectrometry Following Fusion

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|--------------|--|
| LSA-M-A32    | Determination of Major and Minor Elements (Si, Al, Fe, Mg, Ca, Na, K, Ti, Mn, P, Cr, V, Zr and Zn) in Various Mineral Matrices Rich in Carbonates Using X-ray Fluorescence (XRF) Spectrometry Following Fusion                           |
| LSA-M-B02    | Determination of Silver (Ag) in Various Mineral Matrices Using ICP-MS Following 2-Acid Digestion (HNO <sub>3</sub> , HCl)  |
| LSA-M-B10    | Determination of Graphitic Carbon in Various Mineral Matrices Using Infrared Combustion Furnace Following a Treatment with Nitric Acid   |
| LSA-M-B116   | Determination of Rare Earth Elements (Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu) in Various Mineral Matrices Using ICP-MS Following Lithium Metaborate Fusion   |
| LSA-M-B12    | Determination of Organic and Graphitic Carbon in Various Mineral Matrices Using Infrared Combustion Furnace Following a Treatment with Hydrochloric Acid   |
| LSA-M-B121   | Determination of Metallic Iron in Direct Reduced Iron and Hot Briquetted Iron Using Potassium Dichromate Titration Following Iron(III) Chloride Oxidation  |
| LSA-M-B18    | Determination of Total Iron in Concentrated and Agglomerated Iron Ores Using Potassium Dichromate Titration Following Fusion   |
| LSA-M-AU     | Determination of Gold in Various Mineral Matrices Using ICP-MS or ICP-OES Following Fire Assay   |
| LSA-M-B33    | Determination of Loss on Ignition (LOI) on Various Mineral Matrices at 1 050°C by Muffle Furnace Using Gravimetric Method  |
| LSA-M-TGA    | Determination of Loss on Ignition (LOI) on Various Mineral Matrices at 1 000°C by Gravimetric Method Using Thermogravimetric Analyzer (TGA)  |
| LSA-M-B41    | Determination of Total Sulfur in Various Mineral Matrices Using Infrared Combustion Furnace  |
| LSA-M-B45    | Determination of Total Carbon in Various Mineral Matrices Using Infrared Combustion Furnace  |
| LSA-M-B85    | Determination of Iron(II) in Soluble, Acidic, Carbonated and Refractory Rocks by Digestion and Potassium Dichromate Titration  |
| LSA-M-ICP-4A | Determination of 26 Elements (Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sc, Sr, Th, Ti, V and Zn) in Various Mineral Matrices Using a combination of ICP-MS and ICP-OES Following a 4-Acid Digestion |
| LSA-M-LI     | Determination of Lithium (Li) in Various Mineral Matrices Using ICP-MS or ICP-OES Following a 4-Acid Digestion   |

**Notes:**

**ISO/IEC 17025:2005** - General Requirements for the Competence of Testing and Calibration Laboratories

**ICP-OES:** Inductively Coupled Plasma - Optical Emission Spectrometry

**ICP-MS:** Inductively Coupled Plasma - Mass Spectrometry

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Elias Rafous, Vice President  
Accreditation Services

Date: 2019-03-14

CCN 1003-15/32  
Partner File #: 27833  
Partner: BNQ-EL