

CERTIFICATE OF ACCREDITATION

ALFRED H KNIGHT LABORATORY - DEMOCRATIC REPUBLIC OF CONGO

Company Registration No. RCCM: CD/L'SHI/RCCM/14-B-1472/ID Nat.: 6-83-N59819S

Facility Accreditation Number: TEST-5 0080

is a SADCAS accredited Testing Laboratory
provided that all SADCAS conditions are complied with

This certificate is valid as per the scope stated in the accompanying schedule of accreditation,
Annexure "A", bearing the above accreditation number for

CHEMICAL ANALYSIS

The facility is accredited in accordance with the recognized International Standard

ISO/IEC 17025:2017

*The accreditation demonstrates technical competency for a defined scope and the operation
of a laboratory quality management system*

*SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and
SADCAS serves as the basis for the recognition of SADCAS by SADC Member States
as a multi-economy accreditation body*

Eve Christine Gadzikwa
SADCAS Chief Executive Officer

Effective Date (Issue No: 1): 18 May 2023
Certificate Expires: 17 May 2028

ANNEXURE A

SCHEDULE OF ACCREDITATION

CHEMICAL ANALYSIS

Laboratory Accreditation Number: **TEST-5 0080 (ISO/IEC 17025:2017)**

<u>Permanent Address of Laboratory</u> Alfred H Knight DRC SAS 10B Avenue Kigoma Quartier Industrielle Democratic Republic of Congo <u>Postal Address</u> Alfred H Knight DRC SAS 13440 Avenue Idiofa, Immeuble Index- Lubumbashi, Province du Haut-Katanga Democratic Republic of Congo Tel : +243 811 890 971/ 817 087 607 Cell : + 243 826 903 831 Email : ahk.drcongo@ahkgroup.com clarice.kateule@ahkgroup.com		<u>Technical Signatories</u> Mr K E Kayumba (All methods) Mr D T Naweji (Items 2, 6 & 7) Mr J C Kilembi (Items 2, 5, 6 & 7) <u>Nominated Representative</u> : Mrs K Clarisse Mukebo <u>Issue No</u> : 03 <u>Date of Issue</u> : 01 June 2026 <u>Expiry Date</u> : 17 May 2028
MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/TECHNIQUES USED
Copper Concentrates	1. Determination of Copper (Cu) (5 – 65%)	LMW 001 (GC936) Short Iodide Titration Method (Perchloric digestion)
	2. Determination of impurities (ppm - %) Ag, Al, As, Bi, Ca, Cd, Co, Cr, Fe, Ga, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, U, V, Zn	LMW 019 ICP-OES (4-acids digestion)
Ore Samples	3. Determination of Copper (<5%)	LMW 004 FAAS Analysis (4-acids digestion)
Copper Concentrates & Blisters	4. Determination of Copper in precious metals bearing scrap of Copper bullion Determination of Copper in Copper concentrates (50-99.95%)	LMW 005/LMW02 (CG 924) Electro Gravimetric Analysis (Bromine/ Hydrobromic acid digestion)
Copper Cathodes	5. Analysis of high purity Copper (ppm - %) By difference - Ag, As, Bi, Be, Cd, Cr, Co, Fe, Mg, Mn, Ni, P, Pb, Sb, Se, Sn, Te, Si, S, Zn	LMS 001 (OC 900) Spark OES

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Issue No: 03

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MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/ PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/ TECHNIQUES USED
Cobalt Concentrates / Hydroxides	6. Determination of impurities (ppm - %) Al, As, Be, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Ni, P, Pb, U, Zn	LMW 017 ICP-OES - (4-acids digestion)
Zinc Concentrates	7. Determination of impurities (ppm - %) As, Cd, Fe, Mg, SiO ₂	LMW 024 ICP-OES - (Peroxyde Fusion)

Original date of accreditation: 16 May 2023

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Pinkie Malebe
SADCAS Technical Manager