

CERTIFICATE OF ACCREDITATION

ZAMBIA METROLOGY AGENCY

Established by The Metrology Act No. 6 of 2017

Facility Accreditation Number: CAL-9 004

is a SADCAS accredited Calibration 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

VOLUME METROLOGY

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*

Mrs Maureen P Mutasa
SADCAS Chief Executive Officer

Original Date of Accreditation: 23 April 2019
Effective Date (Issue No: 2): 19 May 2020
Certificate Expires: 22 April 2024

ANNEXURE A

SCHEDULE OF ACCREDITATION

VOLUME METROLOGY

Laboratory Accreditation Number: **CAL-9 004 (ISO/IEC 17025:2017)**

Permanent Address of Laboratory Zambia Metrology Agency Plot 4526, Lechwe House Freedom Way, South End Lusaka Zambia Postal Address P O Box 30989 Lusaka Zambia Tel : +260 211 222 294 Cell : +260 977 776 062 Fax : +260 211 222 297 Email : Fredrick.Hamutunda@zma.org.zm		Technical Signatories : E Mwelwa (All Items) Nominated Representative : F Hamutunda Issue No : 03 Date of Issue : 19 May 2020 Expiry Date : 22 April 2024		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)
3	Volumetric Measures			
3.1	Piston pipettes	Internal: <i>MOP 052</i> Reference: <i>SANAS TR 47, R111-1, EURAMET/cg-18/v.04, ISO 8655 -6 and Sartorius WRC 6002-e90121</i>	5 µℓ to 100 µℓ 100 µℓ to 200 µℓ 200 µℓ to 1 000 µℓ 1 000 µℓ to 10 000 µℓ	0.4 µℓ 0.6 µℓ 3,0 µℓ 30 µℓ

Original date of accreditation: 23 April 2019

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%.

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)
3.2	Laboratory Glassware			
3.2.1	Automated Pipettes	Internal: <i>MOP 052, MOP 051 and MOP 055</i>	1 mℓ to 50 mℓ	0.5 %
3.2.2	Dispensers		5 mℓ to 20 mℓ	0.7 %
	Pipettes	Reference: <i>SANAS TR 47, R111-1, EURAMET/cg-18/v.04, ISO 8655-6 and Sartorius WRC 6002-e90121</i>	20 mℓ to 100 mℓ	0.25 %
	Burettes		100 mℓ to 1 ℓ	0.1 %
3.2.3	Flasks		50 mℓ to 100 mℓ	0.5 %
	Pycnometers			

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The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%.

Jeanne Françoise Ranorovelo
SADCAS Technical Manager