

# **CERTIFICATE OF ACCREDITATION**

*In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-*

**CM LAB (PTY) LTD**

**Co. Reg. No.: 2017/204912/07**

Accreditation Number: **CAL 058-14-00**

is a South African National Accreditation System accredited Calibration laboratory  
provided that all SANAS conditions and requirements are complied with

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

## **MASS AND VOLUME METROLOGY**

The facility is accredited in accordance with the recognised International Standard

**ISO/IEC 17025:2017**

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

While this certificate remains valid, the Accredited Facility named above is authorised to use the  
relevant SANAS accreditation symbol to issue facility reports and/or certificates

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**Mr M Phaloane**  
**Acting Chief Executive Officer**

**Effective Date: 20 May 2024**  
**Certificate Expires: 19 May 2029**

## ANNEXURE A

## SCOPE OF ACCREDITATION

### MASS AND VOLUME METROLOGY

Accreditation Number: CAL 058-14-00

<b><u>Permanent Address of Laboratory:</u></b> CM Lab (Pty) Ltd 4 Glenconner Avenue Bridgemeade Port Elizabeth 6025  <b><u>Postal Address:</u></b> 4 Glenconner Avenue Bridgemeade Port Elizabeth 6025  Tel: (041) 360-7216 Fax: 086 532 7639 E-mail: <a href="mailto:info@cmlab.co.za">info@cmlab.co.za</a>	<b><u>Technical Signatories:</u></b> Mr CC Hicken Mr E van der Watt   <b><u>Nominated Representative:</u></b> Mr CC Hicken   Issue No.: 11 Date of Issue: 20 May 2024 Expiry Date: 19 May 2029
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ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	METHOD / PROCEDURE
<b>1</b>	<b>MASS</b>			
<b>1.1</b>	<b>Mass Standard</b>			
1.1.1	Mass Standard (Weights < 100 kg)	1 mg to 5 mg 10 mg to 2 g 5 g to 50 g 100 g 200 g 500 g to 1 000 g 2 kg 5 kg 10 kg 20 kg 20 kg to 100 kg	0,18 mg 0,2 mg 0,3 mg 0,5 mg 0,7 mg 5,0 mg 0,03 g 0,04 g 0,08 g 0,5 g 0,01 %	Calibration by the single substitution method.
1.1.2	Mass Standard (Weights > 100 kg)	100 kg to 500 kg	0,01 %	Calibration using the single substitution method

Original Date of Accreditation: 20 May 2009

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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%

**Accreditation Manager**

# ANNEXURE A

Accreditation No.: CAL 058-14-00

Date of Issue: 20 May 2024

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ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
1.2	Weighing Equipment			
1.2.1	Digital Self-Indicating (Including balances and scales)	0 g to 120 g 120 g to 220 g 220 g to 6,2 kg 6,2 kg to 20 kg 20 kg to 1 000 kg 1 000 kg to 3 000 kg	0, 0005 % 0, 001 % 0, 0015 % 0, 004 % 0, 010 % 0, 030 %	Evaluation of linearity, eccentricity and repeatability using standard weights.
3	VOLUME			
3.1	Volume Dispensers			
3.1.1	Piston pipette < 100 µℓ	10 µℓ to 100 µℓ	0,8 µℓ	Gravimetric method based on ISO 8655-1 delivered volume using distilled water.
3.1.2	Piston pipette > 100 µℓ	100 µℓ to 200 µℓ 200 µℓ to 1 000 µℓ	3,0 µℓ 6,0 µℓ	
3.2	Laboratory Glassware			
3.2.2	Pipettes	1 ml to 5 ml 5 ml to 1 000 ml	1,0 % 0,08%	Gravimetric method delivered and contained volume using distilled water
3.2.3	Flasks, Measuring cylinders & Pycnometers			
3.3	Simple measures other than glass			
3.3.1	Flasks, Measuring cylinders and pycnometers	1 ml to 1 000 ml 1 000 ml to 5 000 ml 5 000 ml to 20 000 ml	0,15 ml 0,02 % 0,01 %	Gravimetric method delivered and contained volume using distilled water
3.4	Meatal measures			
3.4.1	Other metal volume measures	20 ℓ to 100 ℓ	0,05 %	Volume to volume method
3.4.2	Large volume measures	100 ℓ to 5 000 ℓ	0,05 %	
4	On-site calibration for item 1 to 3.4.2 above			

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

**Accreditation Manager**