

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:-

HJR MICROPTIC CC
Co. Reg. No.: 1989/032363/23
MASS CALIBRATION LABORATORY

Accreditation Number: **CAL 022-14-00**

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 scope of accreditation
Annexure "A", bearing the above accreditation number for

MASS 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

Mr F Osman
Acting Chief Executive Officer

Effective Date: 20 June 2025
Certificate Expires: 31 August 2029

ANNEXURE A

SCOPE OF ACCREDITATION

MASS METROLOGY

Accreditation Number: CAL 022-14-00

<u>Permanent Address of Laboratory:</u> HJR Microptic CC Mass Calibration Laboratory 593 Smook Avenue Roseville Pretoria 0031 <u>Postal Address:</u> P O Box 31230 Wonderboompoort 0033 Tel: (012) 335-6663/4 Fax: (012) 335-6665 E-mail: Microptic@mweb.co.za jacques@microptic.net	<u>Technical Signatories:</u> Mr B Strydom Mr A van der Merwe <u>Nominated Representative:</u> Mr H van Deventer Issue No.: 04 Date of Issue: 20 June 2025 Expiry Date: 31 August 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
1	MASS			
1.1	Mass standard			
1.1.1	Mass standard (weights <100kg)	1 mg to 1 g 1 g to 20 g 20 g to 40 g 40 g to 200 g 200 g to 6 000 g 6 kg to 20 kg	0,03 mg 0,07 mg 0,09 mg 0,6 mg 0,02 g 0,2 g	Calibration using the single substitution method.
1.2	Weighing Equipment			
1.2.1	Digital and Self Indicating (Incl. balances and scales)	0 g to 40 g 40 g to 220 g 220 g to 6 000 g 6 kg to 30 kg 30 kg to 3 000 kg	0,06 mg 0,2 mg 0,01 g 0,1 g 0,02 %	Evaluation of Linearity, eccentricity and repeatability using standard weights.
3	On-site calibration of items 1.1 & 1.2			

Original Date of Accreditation: 14 August 2020

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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%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager