Issue date: 28 July 2025
Valid Until: -

NO: SAMM 478
(Issue 2, 28 July 2025 replacement
of SAMM 478 dated 14 January 2025)

LABORATORY LOCATION/ CENTRAL OFFICE:	CAL25 Calibration Laboratory, Kampus Kesihatan Universiti Sains Malaysia 16150 Kubang Kerian, Kelantan , 16150, KELANTAN MALAYSIA
ACCREDITED SINCE :	28 JULY 2025
FIELD(S) OF CALIBRATION:	MASS VOLUME

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

CENTRAL LOCATION	CAL25 Calibration Laboratory, Kampus Kesihatan Universiti Sains Malaysia 16150 Kubang Kerian, Kelantan , 16150, Kelantan
FIELD(S) OF CALIBRATION :	MASS, VOLUME

SCOPE OF CALIBRATION : MASS

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Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Standard Weight	1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg	0.021 mg 0.021 mg 0.023 mg 0.05 mg 0.05 mg 0.28 mg 0.29 mg 0.3 mg 3 mg 3 mg 4 mg	Calibrated using standard weight by comparison method with reference to standard OIML R111.

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SCOPE OF CALIBRATION : VOLUME

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
Piston-operated Volumetric Apparatus Pova (pipette)	0.1 ml to 10 ml 11 ml to 25 ml 26 ml to 50 ml 51 ml to 100 ml 101 ml to 250 ml 251 ml to 300 ml 301 ml to 500 ml 501 ml to 1000 ml 1001 ml to 5000 ml 5001 ml to 10000 ml	0.020 ml 0.026 ml 0.04 ml 0.07 ml 0.13 ml 0.26 ml 0.4 ml 0.5 ml 2 ml 8 ml	Calibrated by gravimetric method with refer to ISO 8655-6

SITE LOCATION (HQ)	1. CATEGORY I
FIELD(S) OF CALIBRATION :	HEAT & TEMPERATURE,MASS

SCOPE OF CALIBRATION : MASS

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Weighing Balances And Scales	0.001 g to 5 g 5 g to 100 g 100 g to 200 g 200 g to 2 kg 2 kg to 3 kg 3 kg to 5 kg 5 kg to 10 kg	0.02 mg 0.13 mg 0.29 mg 0.002 g 0.02 g 0.1 g 0.1 g	1. Calibrated using reference standard weight according to OIML R76-1 and R76-2. 2. The calibration procedure covers the instrumental error, repeatability, eccentricity and hysteresis test. 3. The CMC is estimated from the contributions from the three test; instrumental error, repeatability, and eccentricity and standards used.

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SCOPE OF CALIBRATION : HEAT & TEMPERATURE

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques	Remarks
Temperature Controlled Enclosures	-80 °C to -40 °C -40 °C to -25 °C -25 °C to 0 °C 0 °C to 45 °C 45 °C to 60 °C 60 °C to 70 °C 70 °C to 200 °C 200 °C to 1100 °C	1.2 °C 0.7 °C 0.2 °C 1.0 °C 1.1 °C 1.5 °C 1.6 °C 1.9 °C	Calibrate by using temperature recorder with thermocouple and PRT (refer to IEC 60068-3-5)
Water Bath	37 °C to 42 °C 42 °C to 100 °C	0.6 °C 0.8 °C	Calibrate by using temperature recorder with thermocouple and PRT