

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:-

UNITED SCIENTIFIC (PTY) LTD
Co. Reg No: 1998/008803/07

Accreditation Number: **CAL 095-03-00**

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

TEMPERATURE 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 T Baleni
Acting Chief Executive Officer

Effective Date: 18 August 2023
Certificate Expires: 11 April 2027

ANNEXURE A

SCHEDULE OF ACCREDITATION

TEMPERATURE METROLOGY

Accreditation Number: CAL 095-03-00

Permanent Address of Laboratory: United Scientific (Pty) Ltd Unit BP2 16 Wessel Geldenhuys Street Brackenfell Industrial Cape Town 7460		Technical Signatory: Mr GB Mamaila		
Postal Address: PO Box 505 Goodwood Cape Town 7459 Tel: 021 592 5240 Cell: 072 917 6674 E-mail: richard@united-scientific.co.za		Nominated Representative: Mr RH Anderson		
		Issue No.: 01 Date of Issue: 18 August 2023 Expiry Date: 11 April 2027		
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	THERMOMETRY			
1.3	Thermocouples			
1.3.1	Liquid-in glass Thermometers	- 20 °C to 100 °C	0,5 K	Calibration by comparison with a reference thermometer in a bath, drywell, or furnace.
1.3.2	Digital Thermometers	- 25 °C to 200 °C	0,5 K	
1.4	Reference Temperature Sources			
1.4.1	Ice Point reference	0,00 °C	0,3 K	Prepared in a thermally insulated flask using distilled water and ice.
1.5	Temperature Measuring and Recording			
1.5.2	Data Loggers (Internal sensor)	- 5 °C to 121 °C	0,5 K	Calibration by comparison with a reference thermometer in a chamber, bath drywell or furnace.
	Data Logger (External sensor)	- 25 °C to 200 °C	0,5 K	

Original Date of Accreditation: 18 August 2023

Page 1 of 1

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

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4	TEMPERATURE INSTALLATIONS AND DEVICES			
4.1	Iso-thermal Media evaluation (Multi location over time monitoring)			
4.1.1	Steam Sterilizers (Temperature, Pressure, Time)	20 °C to 125 °C 0 to 200 kPa (abs) 0 to 120 minutes	2,0 K 30 kPa 10 s	Calibration by temperature mapping over time using reference thermometers and/or loggers including calibration of the timing and pressure indicating device.
4.1.2	Environmental Chambers	- 80 °C to 10 °C 10 °C to 60 °C 60 °C to 150 °C	2,0 K 2,0 K 4,4 K	Calibration by temperature mapping over time using reference thermometers and/or loggers.
4.1.3	Furnace, Ovens			
4.1.4	Fridges, Freezers			
4.1.5	Incubators			
4.1.6	Liquid baths			

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Page 1 of 1

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager