

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 0561 Accredited to ISO/IEC 17025:2017	Anachem Ltd A trading name of Mettler-Toledo Issue No: 027 Issue date: 25 January 2022	
	64 Boston Road Leicester LE4 1AW	Contact: Penny Billington Tel: + 01162 3357070/ 01162 345204 (direct line) E-Mail: Penny.Billington@mt.com Website: www.mt.com

Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address 64 Boston Road Leicester LE4 1AW	Local contact Penny Billington	Volume Calibration of PCR Machines and thermal cyclers	Perm

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Customers premises The customers' site or premises must be suitable for the nature of the particular calibrations undertaken and will be the subject of contract review arrangements between the laboratory and the customer.		Volume Calibration of PCR Machines and thermal cyclers	Site



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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty ($k = 2$)	Remarks	Location Code
VOLUME of liquids (See Note 1) Single channel instruments	Nominal value		<p>Note 1. For water delivered from POVA (piston and/or plunger operated volumetric apparatus), using gravimetric procedures agreed with UKAS.</p> <p>1 volume (fixed volume pipettes) 4 volumes (variable volume pipettes) 10 readings (as specified in ISO 8655)</p> <p>From minimum 1 volume and minimum 4 readings, up to 4 volumes and up to 10 readings (by agreement with customer)</p>	Perm, Site
	0.1 µL to 2.0 µL 2.0 µL to 20.0 µL 20.0 µL to 100 µL 100 µL to 200 µL 200 µL to 500 µL 0.5 mL to 1 mL 1 mL to 2 mL 2 mL to 5 mL 5 mL to 10 mL 10 mL to 20 mL 20 mL to 50 mL 50 mL to 100 mL	0.030 µL 0.060 µL 0.20 µL 0.30 µL 0.70 µL 0.002 0 mL 0.003 0 mL 0.007 0 mL 0.015 mL 0.020 mL 0.030 mL 0.050 mL		
Multi-channel instruments up to 12 channels simultaneously calibrated	1.0 µL to 20 µL 20.0 µL to 50.0 µL 50.0 µL to 100 µL 100 µL to 200 µL 200 µL to 600 µL 600 µL to 1200 µL Above 1200 µl to 1250 µl	0.10 µL 0.20 µL 0.30 µL 0.50 µL 1.5 µL 5.0 µL 7.0 µl		Perm, Site
TEMPERATURE Static and dynamic calibration of: 1. PCR [®] cyclers 2. Thermocycler 3. Temp controlled dry-block incubators	30 °C to 95 °C	0.19 °C	<p>Single point or multi-point calibration.</p> <p>Calibration against digital thermometer with an array of sensors.</p> <p>The PCR[®] (Polymerase Chain Reaction), process is covered by patents owned by Hoffman-LaRoche Inc.</p>	Perm, Site
END				



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Appendix - Calibration and Measurement Capabilities

Introduction

The definitive statement of the accreditation status of a calibration laboratory is the Accreditation Certificate and the associated Schedule of Accreditation. This Schedule of Accreditation is a critical document, as it defines the measurement capabilities, ranges and boundaries of the calibration activities for which the organisation holds accreditation.

Calibration and Measurement Capabilities (CMCs)

The capabilities provided by accredited calibration laboratories are described by the Calibration and Measurement Capability (CMC), which expresses the lowest measurement uncertainty that can be achieved during a calibration. If a particular device under calibration itself contributes significantly to the uncertainty (for example, if it has limited resolution or exhibits significant non-repeatability) then the uncertainty quoted on a calibration certificate will be increased to account for such factors.

The CMC is normally used to describe the uncertainty that appears in an accredited calibration laboratory's schedule of accreditation and is the uncertainty for which the laboratory has been accredited using the procedure that was the subject of assessment. The measurement uncertainty is calculated according to the procedures given in the GUM and is normally stated as an expanded uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. An accredited laboratory is not permitted to quote an uncertainty that is smaller than the published measurement uncertainty in certificates issued under its accreditation.

Expression of CMCs - symbols and units

It should be noted that the percentage symbol (%) represents the number 0.01. In cases where the measurement uncertainty is stated as a percentage, this is to be interpreted as meaning percentage of the measurand. Thus, for example, a measurement uncertainty of 1.5 % means $1.5 \times 0.01 \times q$, where q is the quantity value.

The notation $Q[a, b]$ stands for the root-sum-square of the terms between brackets: $Q[a, b] = [a^2 + b^2]^{1/2}$