Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



VWR International Limited

Issue No: 044 Issue date: 05 August 2024

0593

Hunter Boulevard Magna Park

Lutterworth

Accredited to LE17 4XN

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ISO/IEC 17025:2017

Calibration performed by the Organisations at the locations specified below

Locations covered by the organisation and their relevant activities

Site activities performed away from the locations listed above:

Location details	Activity	Location code
Customer's premises, eg, Hospitals, Laboratories, and Manufacturing Plants	Rotational speed (Centrifuges) Temperature (Sterilizers etc, and Thermal Products) Validation of PCR machines Temperature sensors with indicators or recorders Humidity Chambers Non Automatic weighing machines	Site

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Calibration and Measurement Capability (CMC)

Measured Quantity Instrument or Gauge	Range	Expanded Measurement Uncertainty (k = 2)	Remarks	Location Code
TEMPERATURE				
Temperature controlled autoclaves, media preparators, incubators, sterilizers, ovens, environmental chambers, furnaces, fridges/refrigerators, freezers, and liquid baths (inclusive of associated indicators, controllers and recorders, all with sensors, within the specified parameters and ranges)	-196 °C to -80 °C -80 °C to -30 °C -30 °C to +140 °C 140 °C to 250 °C 250 °C to 340 °C 340 °C to 1040 °C 1040 °C to 1140 °C	1.20 °C 0.70 °C 0.42 °C 0.80 °C 3.20 °C 3.30 °C 4.10 °C	Single and multipoint time dependent temperature profiling, also referred to as spatial temperature surveying or mapping	Site
PRT sensors with indicators or recorders	-30 °C to +140 °C	0.21 °C	Calibration performed within Metal Block Baths	
Base Metal Thermocouples with indicators or recorders	-30 °C to +140 °C	0.55 °C		
Dynamic calibration of PCR [®] machines and thermal cyclers	4 °C to 95 °C	0.22 °C	Using a multi sensor system to monitor temperature changes during a PCR run. The PCR (Polymerase Chain Reaction), process is covered by patents owned by Hoffman-LaRoche Inc.	
TIME INTERVAL			Calibration by comparison	Site
Timers	10 s to 1 hr	1.5 s	with reference timer	
ROTATIONAL SPEED			Calibration by comparison with reference tachometer	Site
	100 rpm to 50 000 rpm	0.24 %		
Temperature of centrifuges	-10 °C to +25 °C	2.6 °C		

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Calibration by comparison with reference hygrometer and thermometers In the temperature range 20 ° C to 50 °C	Site
20 ° C to 50 °C	Sita
	Site
	Site
Weights are available in OIML Class: E2 from 1 g to 2 kg,	Site
Max. grouped load 6.1 kg F1 from 1 mg to 10 kg, Max. grouped load 20 kg	
2. Other loads within the overall listed range may also be used.	
3. Calibration method in line with the requirements of Euramet guide cg-18	
	overall listed range may also be used. 3. Calibration method in line with the requirements

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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: $Q[a, b] = [a^2 + b^2]^{1/2}$

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