


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>UKAS CALIBRATION</p> <p>0593</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Lab3 Limited</h3> <p>Issue No: 020 Issue date: 17 March 2011</p>	
	<p>1 Dragon Court Crofts End Road St George Bristol BS5 7XX</p>	<p>Contact: Mr K Wright Tel: +44 (0)117 935 4455 Fax: +44 (0)117 935 4941 E-Mail: kevin.wright@lab3.co.uk Website: www.lab3.co.uk</p>
<p>Calibration performed by the Organisations at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address 1 Dragon Court Crofts End Road St George Bristol BS5 7XX</p>	<p>Local contact Mr K Wright Tel: +44 (0)117 935 4455 Fax: +44 (0)117 935 4941 Email: kevin.wright@lab3.co.uk Website: www.lab3.co.uk</p>	<p>Temperature Validation of PCR machines</p>
		<p>P P</p>

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Customer's premises, eg, Hospitals, Laboratories, and Manufacturing Plants</p>	<p>Rotational speed (Centrifuges) Temperature (Sterilizers etc, and Thermal Products) Validation of PCR machines</p>	<p>S S S</p>



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DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks	Location Code
TEMPERATURE			A list of individual approved engineers is held by the laboratory and by UKAS	
Temperature sensors with indicators or recorders	- 35 °C to 55 °C 55 °C to 140 °C 140 °C to 250 °C 250 °C to 350 °C 350 °C to 650 °C	0.022 °C 0.028 °C 0.037 °C 0.35 °C 1.5 °C		P
Liquid-in-glass thermometers	- 35 °C to 55 °C 55 °C to 140 °C 140 °C to 250 °C	0.024 °C 0.031 °C 0.037 °C	+ 1/10 scale division	P
Temperature block calibrators	- 30 °C to 140 °C - 30 °C to 50 °C 50 °C to 140 °C 140 °C to 350 °C 350 °C to 650 °C	0.058 °C # 0.13 °C 0.20 °C 0.32 °C 1.5 °C	# this CMC only applies to blocks with stirred liquids	P
Temperature controlled autoclaves, media preparators, incubators, sterilizers, ovens, environmental chambers, furnaces, refrigerators, freezers, and liquid baths (inclusive of associated indicators, controllers and recorders, all with sensors, within the specified parameters and ranges)	- 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	0.83 °C 0.50 °C 0.81 °C 1.4 °C 1.6 °C 2.7 °C	Single and multipoint monitoring probes Time dependent temperature profiling	S
Static and dynamic validation of PCR [®] machines and thermal cyclers			The PCR [®] (Polymerase Chain Reaction), process is covered by patents owned by Hoffman-LaRoche Inc.	
Accuracy and uniformity	4 °C to 95 °C	0.14 °C		P, S
TIME INTERVAL				
Timers	10 s to 1 hr	2.0 s		P, S



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Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks	Location Code
ROTATIONAL SPEED Centrifuges	1000 rpm to 20 000 rpm	1.2 %		S
END				