



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION

Valid To: August 31, 2018

Certificate Number: 4062.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Chemical

Parameter/Equipment	Range	CMC ² (±)	Comments
Conductivity Meters ³	(5, 10, 100, 1000, 1413, 10 000, 100 000) µS	5 % of rdg	Reference conductivity solutions
pH Meters ³	(4.0, 7.0, 10.0) pH	0.02 pH	Reference buffer solutions
Spectrophotometers ³ – UV & Visual Spectrums	(0 to 1) A 257.5 nm 415.0 nm 630.0 nm	0.015 A 0.015 A 0.015 A	Liquid reference for use in the UV and visible regions of the spectrum to verify wavelength and absorbance scales
Turbidity Meters ³	(0 to 4000) NTU	5 % of rdg	Stabilized Formazin turbidity standard

II. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Centrifuges ³	Up to 8300 RPM (8307 to 25 000) RPM (25 001 to 99 999) RPM	3.0 RPM 6.0 RPM 11 RPM	Non-contact tachometer
Mass ³ – Electronic & Mechanical Balances	Up to 200 g (201 to 500) g 501 g to 1 kg (1 to 4) kg (5 to 18) kg	0.35 mg 0.86 mg 2.0 mg 11 mg 61 mg	Calibration using F1 precision weights in accordance with UKAS Lab 14, ASTM E74 - 13a, ASTM E4 - 15

III. Thermodynamics

Parameter/Equipment	Range	CMC ² (±)	Comments
Sterilizers ³ (Steam Based) Autoclaves	(120 to 140) °C	1.2 °C	K – type thermocouples with data loggers, title 21 CFR part 11 compliant data logging software
Temperature Profiling ³ Freezers, Chillers, Liquid Baths, Incubators, Ovens	(-20 to 140) °C	1.2 °C	K – type thermocouples with data loggers, title 21 CFR part 11 compliant data logging software

¹ This laboratory offers commercial calibration service and field calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.





Accredited Laboratory

A2LA has accredited

PSI LABS, LLC

Gilbert, AZ

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 14th day of November 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4062.01
Valid to August 31, 2018

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.