PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

BDC Calibration

Av. Gregorio Luperón #51, Los Restauradores, Santo Domingo, Republica Dominicana 10137

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Chemical, Dimensional, Electrical, Mass, Force, and Weighing Device, Mechanical, Optical, Thermodynamic, Time and Frequency Calibration
(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
February 11, 2023	July 17, 2025	October 31 , 2027

Accreditation No.:	*Certificate No.:*
108843	L25-537

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

BDC Calibration

Av. Gregorio Luperón #51, Los Restauradores, Santo Domingo, Republica Dominicana 10137
Contact Name: Franco Giglifiore Phone: 809-338-8888

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Chemical	pH Meter/ Probe	4 pH to 10 pH	0.009 pH	pH Standard Solutions	PR-CAL-021	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	5 µS/cm	0.62 µS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	10 µS/cm	0.62 µS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	25 µS/cm	0.62 µS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	111.3 µS/cm	0.97 µS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	1015 µS/cm	5.4 µS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	1408 µS/cm	6.9 µS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	1413 µS/cm	6.2 µS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Conductivity Meter/ Probe	12.85 mS/cm	0.36 mS/cm	Conductivity Standard Solutions	PR-CAL-022	F1, F3	F, O
Chemical	Refractometers	1.355 n	0.000 29 n	Refraction Standard Liquids	PR-CAL-024	F1, F3	F, O
Chemical	Refractometers	1.420 n	0.000 26 n	Refraction Standard Liquids	PR-CAL-024	F1, F3	F, O
Chemical	Refractometers	1.430 n	0.000 26 n	Refraction Standard Liquids	PR-CAL-024	F1, F3	F, O
Chemical	Refractometers	1.480 n	0.000 31 n	Refraction Standard Liquids	PR-CAL-024	F1, F3	F, O
Chemical	Refractometers	14.94 °Brix	0.15 °Brix	Refraction Standard Liquids	PR-CAL-024	F1, F3	F, O
Chemical	Refractometers	55.03 °Brix	0.11 °Brix	Refraction Standard Liquids	PR-CAL-024	F1, F3	F, O

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Chemical	Refractometers	76.23 °Brix	0.092 °Brix	Refraction Standard Liquids	PR-CAL-024	F1, F3	F, O
Chemical	Turbidity Meter/ Probe	0.04 NTU	0.058 NTU	Turbidity Standard Solutions	PR-CAL-040	F1, F3	F, O
Chemical	Turbidity Meter/ Probe	20 NTU	0.63 NTU	Turbidity Standard Solutions	PR-CAL-040	F1, F3	F, O
Chemical	Turbidity Meter/ Probe	100 NTU	5.9 NTU	Turbidity Standard Solutions	PR-CAL-040	F1, F3	F, O
Chemical	Turbidity Meter/ Probe	200 NTU	6.3 NTU	Turbidity Standard Solutions	PR-CAL-040	F1, F3	F, O
Chemical	Turbidity Meter/ Probe	800 NTU	11 NTU	Turbidity Standard Solutions	PR-CAL-040	F1, F3	F, O
Chemical	Turbidity Meter/ Probe	1 000 NTU	13 NTU	Turbidity Standard Solutions	PR-CAL-040	F1, F3	F, O
Chemical	Turbidity Meter/ Probe	4 000 NTTU	47 NTU	Turbidity Standard Solutions	PR-CAL-040	F1, F3	F, O
Dimensional	Calipers	0.05 in to 8 in	$(289 + 9.73 \times 10^{-2}L)$ µin	Gage Blocks	PR-CAL-032	F1, F3	F, O
Dimensional	Calipers	8 in to 12 in	(287 + 0.35L) µin	Gage Blocks	PR-CAL-032	F1, F3	F, O
Dimensional	Calipers	12 in to 24 in	(288 + 0.25L) µin	Gage Blocks	PR-CAL-032	F1, F3	F, O
Dimensional	Micrometers	0.05 in to 1 in	(3.92 + 2.4L) µin	Gage Blocks	PR-CAL-033	F1, F3	F, O
Dimensional	Micrometers	1 in to 8 in	(4.15 + 2.2L) µin	Gage Blocks	PR-CAL-033	F1, F3	F, O
Dimensional	Indicators (Dial / Digital)	0.05 in to 6 in	(119 + 1.9L) µin	Gage Blocks	PR-CAL-034	F1, F3	F, O
Dimensional	Rules	0.05 in to 24 in	0.009 in	Master blocks	PR-CAL-035	F1, F3	F, O
Dimensional	Tapes	0.05 in to 300 in	$(0.02 + 5.4 \times 10^{-4}L)$ in	Master blocks	PR-CAL-035	F1, F3	F, O
Dimensional	Pin gages	0.011 in to 1 in	105 µin	Micrometer	PR-CAL-065	F1, F3	F, O

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Electrical	Equipment to Measure DC Voltage	1 mV to 75 mV	0.025 % of reading + 12 µV	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	75 mV to 100 mV	0.022 % of reading + 20 µV	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Measure DC Voltage	0.1 V to 10 V	0.020 % of reading + 6.2 mV	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	1 mV to 90 mV	0.021 % of reading + 20 µV	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Output DC Voltage	0.09 V to 30 V	0.021 % of reading + 2 mV	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Output DC Current	1 mA to 24 mA	0.21 % of reading + 2 µA	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Measure Resistance	15 Ω to 400 Ω	101 mΩ	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Measure Resistance	400 Ω to 1 500 Ω	504 mΩ	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Measure Resistance	1 500 Ω to 3 200 Ω	1 Ω	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Output Resistance	0.2 Ω to 400 Ω	101 mΩ	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Output Resistance	400 Ω to 1 500 Ω	504 mΩ	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Equipment to Output Resistance	1 500 Ω to 3 200 Ω	1 Ω	Fluke 724	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	600 °C to 800 °C	2.2 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	800 °C to 1 000 °C	1.8 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B	1 000 °C to 1 800 °C	1.4 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-200 °C to 0 °C	0.9 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	0 °C to 950 °C	0.7 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-200 °C to 0 °C	1.0 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	0 °C to 1 200 °C	0.7 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-200 °C to 0 °C	1.2 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	0 °C to 1 370 °C	0.8 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L	-200 °C to 0 °C	0.85 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L	0 °C to 900 °C	0.7 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-200 °C to 0 °C	1.5 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	0 °C to 1 300 °C	0.9 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	-20 °C to 0 °C	2.5 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	0 °C to 500 °C	1.8 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	500 °C to 1 750 °C	1.4 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	-20 °C to 0 °C	2.5 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	0 °C to 500 °C	1.8 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	500 °C to 1 750 °C	1.5 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-200 °C to 0 °C	1.2 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	0 °C to 400 °C	0.8 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U	-200 °C to 0 °C	1.1 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U	0 °C to 400 °C	0.75 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Ni120, 120 Ω	-80 °C to 260 °C	0.20 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 100 Ω	-200 °C to 800 °C	0.33 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 392, 100 Ω	-200 °C to 630 °C	0.30 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 200 Ω	-200 °C to 250 °C	0.20 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 200 Ω	250 °C to 630 °C	0.80 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O

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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 500 Ω	-200 °C to 500 °C	0.30 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 500 Ω	500 °C to 630 °C	0.40 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 1 000 Ω	-200 °C to 630 °C	0.20 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	1 mg to 500 mg	$(7.0 \times 10^{-3} + 4.4 \times 10^{-5}Wt)$ mg	OIML E2 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	1 g to 100 g	$(0.1 + 1.5 \times 10^{-3}Wt)$ mg	OIML E2 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	100 g to 200 g	$(0.1 + 1.6 \times 10^{-3}Wt)$ mg	OIML E2 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	200 g to 1 000 g	$(-0.1 + 1.9 \times 10^{-3}Wt)$ mg	OIML E2 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	1 000 g to 5 000 g	$(0.1 + 1.9 \times 10^{-3}Wt)$ mg	OIML E2 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	5 000 g to 10 000 g	$(0.2 + 1.9 \times 10^{-3}Wt)$ mg	OIML E2 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Balances	10 kg to 20 kg	$(0.6 + 1.8 \times 10^{-3}Wt)$ mg	OIML E2 weights	PR-CAL-020	F1, F3	F, O

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Mass, Force, and Weighing Devices	Scales and Balances	20 kg to 40 kg	(-206 + 1.2 x 10^{-2}Wt) mg	OIML E2, F1, F2 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Weighing Devices	40 kg to 300 kg	(8.8 + 9.3 x 10^{-2}Wt) g	ASTM 6 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales and Weighing Devices	300 kg to 1 600 kg	(-46.5 + 0.26Wt) g	ASTM 6 weights	PR-CAL-020	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	1 mg	8.7 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	2 mg	8.7 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	5 mg	8.7 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	10 mg	8.7 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	20 mg	9.0 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	50 mg	9.4 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O

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Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	100 mg	10 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	200 mg	11 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	500 mg	12 µg	OIML E2 weight set Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	1 g	0.022 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	2 g	0.033 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	5 g	0.038 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	10 g	0.055 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O

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BDC Calibration

Av. Gregorio Luperón #51, Los Restauradores, Santo Domingo, Republica Dominicana 10137
Contact Name: Franco Giglifiore Phone: 809-338-8888

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Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	20 g	0.080 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	50 g	0.11 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	100 g	0.13 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	200 g	0.22 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	500 g	1 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	1 kg	1.2 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	2 kg	1.6 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O

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Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	3 kg	1.8 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	5 kg	3.8 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (ASTM Class 2, 3, 4, 5, 6 & 7) (OIML Class F1, F2, M1, M2 & M3) (NIST Class F)	10 kg	7 mg	OIML E2 weight set Balances Mass Comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (NIST Class F) (ASTM 5, 6 & 7)	20 kg	26 mg	OIML E2 and F1 weights Mass comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Mass Weights (NIST Class F) (ASTM 5, 6 & 7)	25 kg	31 mg	OIML E2 and F1 weights Mass comparator	PR-CAL-051	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Tension and Compression	10 lbf to 100 lbf	0.079 lbf	Reference Gauge MR04-100	PR-CAL-069	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Gauges (Tension and Compression	100 lbf to 500 lbf	0.42 lbf	Reference Gauge MR01-500	PR-CAL-069	F1, F3	F, O
Mechanical	Pressure Gauges, Vacuum Gauges	-14 psig to 0.2 psig	0.023 psig	ADT681 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Pressure Gauges, Vacuum Gauges	0.2 psig to 60 psig	0.023 psig	ADT681 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Pressure Gauges, Vacuum Gauges	60 psig to 180 psig	0.039 psig	ADT681 and pneumatic pump	PR-CAL-037	F1, F3	F, O

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Mechanical	Pressure Gauges, Vacuum Gauges	180 psig to 240 psig	0.054 psig	ADT681 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Pressure Gauges, Vacuum Gauges	240 psig to 300 psig	0.064 psig	ADT681 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Differential Pressure Gauges, Pressure Gauges,	0.3 hPa to 400 hPa	0.1 hPa	Testo 526-2 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Differential Pressure Gauges, Pressure Gauges,	400 hPa to 800 hPa	0.13 hPa	Testo 526-2 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Differential Pressure Gauges, Pressure Gauges,	800 hPa to 1 200 hPa	0.18 hPa	Testo 526-2 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Differential Pressure Gauges, Pressure Gauges,	1 200 hPa to 1 600 hPa	0.25 hPa	Testo 526-2 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Differential Pressure Gauges, Pressure Gauges,	1 600 hPa to 2 000 hPa	0.39 hPa	Testo 526-2 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Differential Pressure Gauges Pressure Gauges	-10 in H2O to + 10 in H2O	0.005 6 in H2O	ADT681 and pneumatic pump	PR-CAL-037	F1, F3	F, O
Mechanical	Absolute, Barometric Pressure Gauges	600 hPa to 1100 hPa	0.69 hPa	Reference Gauge Testo 176 P1	PR-CAL-055	F1, F3	F, O
Mechanical	Anemometers, Air Velocity Meters	0.4 m/s to 30 m/s	2.1 % of reading + 0.05 m/s	Reference Air Velocity Meter Traceable 4091	PR-CAL-053	F1, F3	F, O
Mechanical	Fume Hoods, Laminar Flow Hoods, Biosafety Cabinets, (Air Velocity)	0.4 m/s to 30 m/s	2.1 % of reading + 0.05 m/s	Reference Air Velocity Meter Traceable 4091	PR-CAL-056	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	0.25 µL to 20 µL	0.08 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O

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Fluid Quantities	Pipettes, Burettes, Dispensers	20 µL to 100 µL	0.094 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	100 µL to 200 µL	0.12 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	200 µL to 500 µL	0.21 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	500 µL to 1 000 µL	0.35 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	1 000 µL to 2 500 µL	0.8 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	2 500 µL to 5 000 µL	1.6 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O

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Fluid Quantities	Pipettes, Burettes, Dispensers	5 000 µL to 10 000 µL	2.5 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	10 000 µL to 20 000 µL	5.1 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	20 000 µL to 50 000 µL	16 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Pipettes, Burettes, Dispensers	50 000 µL to 100 000 µL	28 µL	Gravimetric method reference to mass balances and OIML Class E2 mass standards, Analytical Balance.	PR-CAL-049	F1, F3	F, O
Fluid Quantities	Volumetric Ware/ Equipment	1 mL to 20 mL	(5 + 0.3 V) µL	Gravimetric method reference to mass balances and OIML E2 weights	PR-CAL-050	F1, F3	F, O
Fluid Quantities	Volumetric Ware/ Equipment	20 mL to 200 mL	(1.4 + 0.5 V) µL	Gravimetric method reference to mass balances and OIML E2 weights	PR-CAL-050	F1, F3	F, O

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Fluid Quantities	Volumetric Ware/ Equipment	200 mL to 500 mL	(73 + 0.1 V) µL	Gravimetric method reference to mass balances and OIML E2 weights	PR-CAL-050	F1, F3	F, O
Fluid Quantities	Volumetric Ware/ Equipment	500 mL to 1 000 mL	(-36 + 0.3 V) µL	Gravimetric method reference to mass balances and OIML E2 weights	PR-CAL-050	F1, F3	F, O
Fluid Quantities	Volumetric Ware/ Equipment	1 000 mL to 10 000 mL	(-708 + 1.0 V) µL	Gravimetric method reference to mass balances and OIML E2 weights	PR-CAL-050	F1, F3	F, O
Fluid Quantities	Volumetric Ware/ Equipment	10 000 mL to 40 000 mL	(-35 + 0.9 V) µL	Gravimetric method reference to mass balances and OIML E2 weights	PR-CAL-050	F1, F3	F, O
Mechanical	Viscosity Meters and Cups	1.033 Pa·s	0.005 9 Pa·s	Viscosity Standard Fluids	PR-CAL-025	F1, F3	F, O
Mechanical	Viscosity Meters and Cups	43.670 Pa·s	0.011 Pa·s	Viscosity Standard Fluids	PR-CAL-025	F1, F3	F, O
Mechanical	Viscosity Meters and Cups	67.810 Pa·s	0.016 Pa·s	Viscosity Standard Fluids	PR-CAL-025	F1, F3	F, O
Mechanical	Hydrometers	0.6 SG to 1.25 SG	0.000 11 SG	Standard Hydrometer	PR-CAL-028	F1, F3	F, O
Mechanical	Density meters	0.838 3 g/mL	0.000 17 g/mL	Density Standards	PR-CAL-028	F1, F3	F, O
Mechanical	Density meters	0.981 3 g/mL	0.000 17 g/mL	Density Standards	PR-CAL-028	F1, F3	F, O
Optical	IR Spectrometers	539.41 cm x 10^{-1}	1.42 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	841.79 cm x 10^{-1}	0.72 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	906.63 cm x 10^{-1}	0.22 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O

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Optical	IR Spectrometers	1 028.27 cm x 10^{-1}	0.18 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	1 069.22 cm x 10^{-1}	0.52 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	1 154.50 cm x 10^{-1}	0.12 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	1 582.98 cm x 10^{-1}	0.08 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	1 601.29 cm x 10^{-1}	0.12 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	1 942.97 cm x 10^{-1}	0.66 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	2 849.48 cm x 10^{-1}	0.30 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	3 001.20 cm x 10^{-1}	0.13 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	3 025.99 cm x 10^{-1}	0.32 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	3 060.16 cm x 10^{-1}	0.17 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	IR Spectrometers	3 082.26cm x 10^{-1}	0.14 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062	F1, F3	F, O
Optical	Spectrophotometer (Absorbance) (@ 250 nm to 635 nm)	0.030 Abs	0.002 4 Abs	Neutral Density Filters NIST 2031a	PR-CAL-038	F1, F3	F, O
Optical	Spectrophotometer (Absorbance) (@ 250 nm to 635 nm)	0.50 Abs	0.004 2 Abs	Neutral Density Filters NIST 2031a	PR-CAL-038	F1, F3	F, O

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Optical	Spectrophotometer (Absorbance) (@ 250 nm to 635 nm)	1.0 Abs	0.004 7 Abs	Neutral Density Filters NIST 2031a	PR-CAL-038	F1, F3	F, O
Optical	Spectrophotometer (Transmittance) (@ 250 nm to 635 nm)	93 T %	0.51 T %	Neutral Density Filters NIST 2031a	PR-CAL-038	F1, F3	F, O
Optical	Spectrophotometer (Transmittance) (@ 250 nm to 635 nm)	31 T %	0.31 T %	Neutral Density Filters NIST 2031a	PR-CAL-038	F1, F3	F, O
Optical	Spectrophotometer (Transmittance) (@ 250 nm to 635 nm)	10 T%	0.11 T %	Neutral Density Filters NIST 2031a	PR-CAL-038	F1, F3	F, O
Optical	Spectrophotometer to Output Light (Fixed Point)	240 nm to 640 nm	0.17 nm	Holmium Oxide Glass	PR-CAL-038	F1, F3	F, O
Thermodynamic	Temperature Measurement Devices	-200 °C to -21 °C	0.031 °C	PRT Thermometer Liquid Bath Dry Block	PR-CAL-029, PR-CAL-030, PR-CAL-031	F1, F3	F, O
Thermodynamic	Temperature Measurement Devices	-20 °C to 200 °C	0.028 °C	PRT Thermometer Liquid Bath Dry Block	PR-CAL-029, PR-CAL-030, PR-CAL-031	F1, F3	F, O
Thermodynamic	Temperature Measurement Devices	200 °C to 420 °C	0.11 °C	PRT Thermometer Liquid Bath Dry Block	PR-CAL-029, PR-CAL-030, PR-CAL-031	F1, F3	F, O
Thermodynamic	Temperature Measurement “System Accuracy”, Oven, Heaters, Incubators, Furnaces, Chambers, Moisture Analyzers	-200 °C to 1 000 °C	1.2 °C	Fluke 724 with Thermocouple	PR-CAL-042, PR-CAL-047	F1, F3	F, O
Thermodynamic	Equipment to Measure and Output Relative Humidity	5 % RH to 95 % RH	1.0 % RH	Vaisala HMP75 Humidity Chamber	PR-CAL-023	F1, F3	F, O

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Thermodynamic	IR Thermometers, Pyrometers	30 °C to 60 °C	1.1 % of reading	Blackbody Calibrator with PRT Thermometer	PR-CAL-039	F1, F3	F, O
Thermodynamic	IR Thermometers, Pyrometers	60 °C to 100 °C	1.2 % of reading	Blackbody Calibrator with PRT Thermometer	PR-CAL-039	F1, F3	F, O
Thermodynamic	IR Thermometers, Pyrometers	100 °C to 500 °C	1.3 % of reading	Blackbody Calibrator with PRT Thermometer	PR-CAL-039	F1, F3	F, O
Time and Frequency	Equipment to Output Frequency	5 Hz to 99.99 kHz	0.11 % of reading + 0.02 Hz	Fluke 117	PR-CAL-026	F1, F3	F, O
Time and Frequency	Equipment to Output Frequency	100 Hz to 999 Hz	0.11 % of reading + 0.2 Hz	Fluke 117	PR-CAL-026	F1, F3	F, O
Time and Frequency	Equipment to Output Frequency	1 kHz to 9.999 kHz	0.11 % of reading + 2 Hz	Fluke 117	PR-CAL-026	F1, F3	F, O
Time and Frequency	Equipment to Output Frequency	10 kHz to 99.99 kHz	0.11 % of reading + 20 Hz	Fluke 117	PR-CAL-026	F1, F3	F, O
Time and Frequency	Stopwatch	1 hr to 3 hr	0.12 s	Master Stopwatch	PR-CAL-027	F1, F3	F, O
Time and Frequency	Stopwatch	3 hr to 10 hr	0.23 s	Master Stopwatch	PR-CAL-027	F1, F3	F, O
Time and Frequency	Process timers	300 s to 9 000 s	0.13 s	Master Stopwatch	PR-CAL-027	F1, F3	F, O
Time and Frequency	Tachometer – Optical and Mechanical Rotational measurement Centrifuges	5 rpm to 99.999 rpm	$(6.5 \times 10^{-4} + 9.4 \times 10^{-5} R)$ rpm	Comparison to Standard Tachometer PLT200	PR-CAL-046	F1, F3	F, O
Time and Frequency	Tachometer – Optical and Mechanical Rotational measurement Centrifuges	100 rpm to 999.99 rpm	$(4.5 \times 10^{-3} + 9.6 \times 10^{-5} R)$ rpm	Comparison to Standard Tachometer PLT200	PR-CAL-046	F1, F3	F, O
Time and Frequency	Tachometer – Optical and Mechanical Rotational measurement Centrifuges	1 000 rpm to 9 999.9 rpm	$(3.2 \times 10^{-2} + 9.7 \times 10^{-5} R)$ rpm	Comparison to Standard Tachometer PLT200	PR-CAL-046	F1, F3	F, O

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Time and Frequency	Tachometer – Optical and Mechanical Rotational Measurement Centrifuges	10 000 rpm to 99 999 rpm	$(1.3 + 2.3 \times 10^{-6}R)$ rpm	Comparison to Standard Tachometer PLT200	PR-CAL-046	F1, F3	F, O
Time and Frequency	Tachometer – Optical and Mechanical Rotational measurement Centrifuges	100 000 rpm to 200 000 rpm	$(11 + 4.0 \times 10^{-6}R)$ rpm	Comparison to Standard Tachometer PLT200	PR-CAL-046	F1, F3	F, O

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

BDC Calibration

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Accreditation is granted to the facility to perform the following conformity assessment activities:

6. The term R represents radius in inches or millimeters as appropriate to the uncertainty statement.

7. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement

8. The term V represents Volume in units appropriates to the uncertainty statement.