PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

BDC Calibration

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

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Chemical, Dimensional, Electrical, Mass, Force, and Weighing Device, Mechanical, Optical, Thermodynamic, Time and Frequency Calibration

(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

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	February 11, 2023	June 30, 2025
Revision Date:	*Accreditation No.:*	*Certificate No.:*
March 07, 2024	108843	L23-110-R1

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 10137, República Dominicana
Contact Name: Mr. Franco Giglifiore Phone: 809-338-8888

Accreditation is granted to the facility to perform the following testing:

Chemical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
pH Meter/Probe [FO]	4 pH to 10 pH	0.009 pH	pH Standard Solutions	PR-CAL-021
Conductivity Meter/ Probe [FO]	5 µS/cm	0.62 µS/cm	Conductivity Standard Solutions	PR-CAL-022
	10 µS/cm	0.62 µS/cm		
	25 µS/cm	0.62 µS/cm		
	111.3 µS/cm	0.97 µS/cm		
	1015 µS/cm	5.4 µS/cm		
	1408 µS/cm	6.9 µS/cm		
	1413 µS/cm	6.2 µS/cm		
	12.85 mS/cm	0.36 mS/cm		
Refractometers [FO]	1.355 n	0.000 29 n	Refraction Standard Liquids	PR-CAL-024
	1.420 n	0.000 26 n		
	1.430 n	0.000 26 n		
	1.480 n	0.000 31 n		
	14.94 °Brix	0.15 °Brix		
	55.03 °Brix	0.11 °Brix		
	76.23 °Brix	0.092 °Brix		
Turbidity Meter/Probe [FO]	0.04 NTU	0.058 NTU	Turbidity Standard Solutions	PR-CAL-040
	20 NTU	0.63 NTU		
	100 NTU	5.9 NTU		
	200 NTU	6.3 NTU		
	800 NTU	11 NTU		
	1 000 NTU	13 NTU		
	4 000 NTTU	47 NTU		

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Dimensional

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Calipers FO	0.05 in to 8 in	(289 + 9.73 x 10^{-2}L) µin	Gage Blocks	PR-CAL-032
	8 in to 12 in	(287 + 0.35L) µin		
	12 in to 24 in	(288 + 0.25L) µin		
Micrometers FO	0.05 in to 1 in	(3.92 + 2.4L) µin		PR-CAL-033
	1 in to 8 in	(4.15 + 2.2L) µin		
Indicators,dial, digital FO	0.05 in to 6 in	(119 + 1.9L) µin		PR-CAL-034
Rules FO	0.05 in to 24 in	0.009 in	Master blocks	PR-CAL-035
Tapes FO	0.05 in to 300 in	(0.02 + 5.4 x 10^{-4}L) in		
Pin gages FO	0.011 in to 1 in	105 µin	Micrometer	PR-CAL-065

Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Equipment to measure DC voltage FO	1 mV to 75 mV	0.025 % of reading + 12 µV	Fluke 724	PR-CAL-026
	75 mV to 100 mV	0.022 % of reading + 20 µV		
	0.1 V to 10 V	0.020 % of reading + 6.2 mV		
Equipment to output DC voltage FO	1 mV to 90 mV	0.021 % of reading + 20 µV		
	0.09 V to 30 V	0.021 % of reading + 2 mV		
Equipment to output DC current FO	1 mA to 24 mA	0.21 % of reading + 2 µA		
Equipment to Measure Resistance FO	15 Ω to 400 Ω	101 mΩ		
	400 Ω to 1 500 Ω	504 mΩ		
	1 500 Ω to 3 200 Ω	1.0 Ω		
Equipment to output Resistance FO	0.2 Ω to 400 Ω	101 mΩ		
	400 Ω to 1 500 Ω	504 mΩ		
	1 500 Ω to 3 200 Ω	1.0 Ω		

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Temperature Calibration, Indication and Control Equipment used with Thermocouple Type B [FO]	600 °C to 800 °C	2.2 °C	Fluke 724 Electrical Simulation of Thermocouple Output	PR-CAL-026
	800 °C to 1 000 °C	1.8 °C		
	1 000 °C to 1 800 °C	1.4 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E [FO]	-200 °C to 0 °C	0.9 °C		
	0 °C to 950 °C	0.7 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J [FO]	-200 °C to 0 °C	1.0 °C		
	0 °C to 1 200 °C	0.7 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K [FO]	-200 °C to 0 °C	1.2 °C		
	0 °C to 1 370 °C	0.8 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type L [FO]	-200 °C to 0 °C	0.85 °C		
	0 °C to 900 °C	0.7 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N [FO]	-200 °C to 0 °C	1.5 °C		
	0 °C to 1 300 °C	0.9 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R [FO]	-20 °C to 0 °C	2.5 °C		
	0 °C to 500 °C	1.8 °C		
	500 °C to 1 750 °C	1.4 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S [FO]	-20 °C to 0 °C	2.5 °C		
	0 °C to 500 °C	1.8 °C		
	500 °C to 1 750 °C	1.5 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T [FO]	-200 °C to 0 °C	1.2 °C		
	0 °C to 400 °C	0.8 °C		
Temperature Calibration, Indication and Control Equipment used with Thermocouple Type U [FO]	-200 °C to 0 °C	1.1 °C		
	0 °C to 400 °C	0.75 °C		

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Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Ni120, 120 Ω [FO]	-80 °C to 260 °C	0.20 °C	Fluke 724 Electrical Simulation of RTD Output	PR-CAL-026
Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 100 Ω [FO]	-200 °C to 800 °C	0.33 °C		
Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 392, 100 Ω [FO]	-200 °C to 630 °C	0.30 °C		
Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 200 Ω [FO]	-200 °C to 250 °C	0.20 °C		
	250 °C to 630 °C	0.80 °C		
Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 500 Ω [FO]	-200 °C to 500 °C	0.30 °C		
	500 °C to 630 °C	0.40 °C		
Temperature Calibration, Indication and Control Equipment used with RTD Indicators / Detectors Type Pt 385, 1 000 Ω [FO]	-200 °C to 630 °C	0.20 °C		

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Accreditation is granted to the facility to perform the following testing:

Mass, Force, Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Scales and balances FO	1 mg to 500 mg	$(7.0 \times 10^{-3} + 4.4 \times 10^{-5}Wt)$ mg	OIML E2 weights	PR-CAL-020
	1 g to 100 g	$(0.1 + 1.5 \times 10^{-3}Wt)$ mg		
	100 g to 200 g	$(0.1 + 1.6 \times 10^{-3}Wt)$ mg		
	200 g to 1 000 g	$(-0.1 + 1.9 \times 10^{-3}Wt)$ mg		
	1 000 g to 5 000 g	$(0.1 + 1.9 \times 10^{-3}Wt)$ mg		
	5 000 g to 10 000 g	$(0.2 + 1.9 \times 10^{-3}Wt)$ mg		
	10 kg to 20 kg	$(0.6 + 1.8 \times 10^{-3}Wt)$ mg		
	20 kg to 40 kg	$(-206 + 1.2 \times 10^{-2}Wt)$ mg	OIML E2, F1, F2 weights	
Scales and weighing devices FO	40 kg to 300 kg	$(8.8 + 9.3 \times 10^{-2}Wt)$ g	ASTM 6 weights	
	300 kg to 1 600 kg	$(-46.5 + 0.26Wt)$ g		
Mass Weights ASTM Class 2, 3, 4, 5, 6 & 7 OIML Class F1, F2, M1, M2 & M3 NIST Class F FO	1 mg	8.7 µg	OIML E2 weight set Mass Comparator	PR-CAL-051
	2 mg	8.7 µg		
	5 mg	8.7 µg		
	10 mg	8.7 µg		
	20 mg	9.0 µg		
	50 mg	9.4 µg		
	100 mg	10 µg		
	200 mg	11 µg		
	500 mg	12 µg		
	1 g	0.022 mg	OIML E2 weight set Balances Mass Comparator	
	2 g	0.033 mg		
	5 g	0.038 mg		
	10 g	0.055 mg		
	20 g	0.080 mg		
	50 g	0.11 mg		
	100 g	0.13 mg		
	200 g	0.22 mg		
	500 g	1 mg		
	1 kg	1.2 mg		
	2 kg	1.6 mg		
	3 kg	1.8 mg		
	5 kg	3.8 mg		
	10 kg	7 mg		

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Mass Weights NIST Class F, ASTM 5, 6 & 7 FO	20 kg	26 mg	OIML E2 and F1 weights Mass comparator	PR-CAL-051
	25 kg	31 mg		
Force Gauges (Tension and Compression FO	10 lbf to 100 lbf	0.079 lbf	Reference Gauge MR04-100	PR-CAL-069
	100 lbf to 500 lbf	0.42 lbf	Reference Gauge MR01-500	

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Pressure Gauges, Vacuum Gauges FO	-14 psig to 0.2 psig	0.023 psig	ADT681 and pneumatic pump	PR-CAL-037
	0.2 psig to 60 psig	0.023 psig		
	60 psig to 180 psig	0.039 psig		
	180 psig to 240 psig	0.054 psig		
	240 psig to 300 psig	0.064 psig		
Differential Pressure Gauges, Pressure Gauges, FO	0.3 hPa to 400 hPa	0.1 hPa	Testo 526-2 and pneumatic pump	PR-CAL-037
	400 hPa to 800 hPa	0.13 hPa		
	800 hPa to 1 200 hPa	0.18 hPa		
	1 200 hPa to 1 600 hPa	0.25 hPa		
	1 600 hPa to 2 000 hPa	0.39 hPa		
Differential Pressure Gauges Pressure Gauges FO	-10 in H2O to + 10 in H2O	0.005 6 in H2O	ADT681 and pneumatic pump	PR-CAL-037
Anemometers, Air Velocity Meters FO	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
Fume Hoods, Laminar Flow Hoods, Biosafety Cabinets, Air velocity only FO	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
Pipettes, Burettes, Dispensers FO	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
	20 µL to 100 µL	0.094 µL		
	100 µL to 200 µL	0.12 µL		
	200 µL to 500 µL	0.21 µL		
	500 µL to 1 000 µL	0.35 µL		
	1 000 µL to 2 500 µL	0.8 µL		

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Mechanical

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Pipettes, Burettes, Dispensers FO	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
	5 000 µL to 10 000 µL	2.5 µL		
	10 000 µL to 20 000 µL	5.1 µL		
	20 000 µL to 50 000 µL	16 µL		
	50 000 µL to 100 000 µL	28 µL		
Tachometer – Optical and Mechanical Rotational measurement Centrifuges FO	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
	100 rpm to 999.99 rpm	$(4.5 \times 10^{-3} + 9.6 \times 10^{-5}R)$ rpm		
	1 000 rpm to 9 999.9	$(3.2 \times 10^{-2} + 9.7 \times 10^{-5}R)$ rpm		
	10 000 rpm to 99 999	$(1.3 + 2.3 \times 10^{-6}R)$ rpm		
	100 000 rpm to 200 000 rpm	$(11 + 4.0 \times 10^{-6}R)$ rpm		
Viscosity Meters and Cups FO	1.033 Pa·s	0.005 9 Pa·s	Viscosity Standard Fluids	PR-CAL-025
	43.670 Pa·s	0.011 Pa·s		
	67.810 Pa·s	0.016 Pa·s		
Volumetric Ware/ Equipment FO	1 mL to 20 mL	(5 + 0.3 V) µL	Gravimetric method reference to mass balances and OIML E2 weights	PR-CAL-050
	20 mL to 200 mL	(1.4 + 0.5 V) µL		
	200 mL to 500 mL	(73 + 0.1 V) µL		
	500 mL to 1 000 mL	(-36 + 0.3 V) µL		
	1 000 mL to 10 000 mL	(-708 + 1.0 V) µL		
	10 000 mL to 40 000 mL	(-35 + 0.9 V) µL		
Hydrometers FO	0.6 SG to 1.25 SG	0.000 11 SG	Standard Hydrometer	PR-CAL-028
Density meters FO	0.838 3 g/mL	0.000 17 g/mL	Density Standards	PR-CAL-028
	0.981 3 g/mL			
Absolute, Barometric Pressure Gauges FO	600 hPa to 1100 hPa	0.69 hPa	Reference Gauge Testo 176 P1	PR-CAL-055

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Optical

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IR Spectrometers at the listed wavelengths FO	539.41 cm x 10^{-1}	1.42 cm x 10^{-1}	Standard reference filter NIST SRM 1921b	PR-CAL-062
	841.79 cm x 10^{-1}	0.72 cm x 10^{-1}		
	906.63 cm x 10^{-1}	0.22 cm x 10^{-1}		
	1 028.27 cm x 10^{-1}	0.18 cm x 10^{-1}		
	1 069.22 cm x 10^{-1}	0.52 cm x 10^{-1}		
	1 154.50 cm x 10^{-1}	0.12 cm x 10^{-1}		
	1 582.98 cm x 10^{-1}	0.08 cm x 10^{-1}		
	1 601.29 cm x 10^{-1}	0.12 cm x 10^{-1}		
	1 942.97 cm x 10^{-1}	0.66 cm x 10^{-1}		
	2 849.48 cm x 10^{-1}	0.30 cm x 10^{-1}		
	3 001.20 cm x 10^{-1}	0.13 cm x 10^{-1}		
	3 025.99 cm x 10^{-1}	0.32 cm x 10^{-1}		
	3 060.16 cm x 10^{-1}	0.17 cm x 10^{-1}		
	3 082.26cm x 10^{-1}	0.14 cm x 10^{-1}		
Spectrophotometer to measure Absorbance At the wavelengths 250 nm to 635 nm FO	0.030 Abs	0.002 4 Abs	Neutral Density Filters NIST 2031a	PR-CAL-038
	0.50 Abs	0.004 2 Abs		
	1.0 Abs	0.004 7 Abs		
Spectrophotometer to measure Transmittance At the wavelengths 250 nm to 635 nm FO	93 T %	0.51 T %		
	31 T %	0.31 T %		
	10 T%	0.11 T %		
Spectrophotometer to output light at fixed point wavelengths FO	240 nm to 640 nm	0.17 nm	Holmium Oxide Glass	PR-CAL-038

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Thermodynamic

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Temperature Measurement Devices [FO]	-200 °C to -21 °C	0.031 °C	PRT Thermometer Liquid Bath Dry Block	PR-CAL-029, PR-CAL-030, PR-CAL-031
	-20 °C to 200 °C	0.028 °C		
	200 °C to 420 °C	0.11 °C		
Temperature Measurement "System Accuracy", Oven, Heaters, Incubators, Furnaces, Chambers, Moisture Analyzers [FO]	-200 °C to 1 000 °C	1.2 °C	Fluke 724 with Thermocouple	PR-CAL-042, PR-CAL-047
Equipment to Measure and Output Relative Humidity [FO]	5 % RH to 95 % RH	1.0 % RH	Vaisala HMP75 Humidity Chamber	PR-CAL-023
IR Thermometers, Pyrometers [FO]	30 °C to 60 °C	1.1 % of reading	Blackbody Calibrator with PRT Thermometer	PR-CAL-039
	60 °C to 100 °C	1.2 % of reading		
	100 °C to 500 °C	1.3 % of reading		

Time and Frequency

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Equipment to Output Frequency [FO]	5 Hz to 99.99 kHz	0.11 % of reading + 0.02 Hz	Fluke 117	PR-CAL-026
	100 Hz to 999 Hz	0.11 % of reading + 0.2 Hz		
	1 kHz to 9.999 kHz	0.11 % of reading + 2 Hz		
	10 kHz to 99.99 kHz	0.11 % of reading + 20 Hz		
Stopwatch [FO]	1 hr to 3 hr	0.12 s	Master Stopwatch	PR-CAL-027
	3 hr to 10 hr	0.23 s		
Process timers [FO]	300 s to 9 000 s	0.13s		

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.

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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. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location.
4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.
5. 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.
6. The term R represents rotational velocity in rpm as appropriate to the uncertainty statement.
7. The term V represents volume in units appropriate to the uncertainty statement.
8. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.
9. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.