



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Bio Calibration Company, Inc.

438 Ganttown Road 693, Sewell, NJ 08080

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:

Mechanical, Mass, Force, and Weighing Device, Thermodynamic, Electrical,
Time and Frequency and Chemical 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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

May 24, 2019

August 07, 2025

October 31, 2027

Accreditation No.:

Certificate No.:

60816

L25-600

Tracy Szerszen President

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





Bio Calibration Company, Inc.

438 Ganttown Road 693, Sewell, NJ 08080 Contact Name: Eric Recupero Phone: 856-218-4882

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
Fluid Quantities	Piston-Operated Volumetric	0.1 μL to 2.0 μL	0.003 7 uL	Microbalance with Vapor	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;			Trap	ISO TR-20461		
El 110 del	Burettes; Dilutors; Syringes)	20 1 50 1	0.012 T	ASTM Class 0 Weights	BCC SOP-101	E1 E2 E2	
Fluid Quantities	Piston-Operated Volumetric	2.0 μL to 5.0 μL	0.013 uL	Microbalance with Vapor	ISO 8655:2022	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;			Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)		0.010	ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	5.0 μL to 15.0 μL	0.019 uL	Microbalance with Vapor	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;			Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)			ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	15.0 μL to 20.0 μL	0.018 uL	Microbalance with Vapor	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;			Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)			ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	20.0 μL to 50.0 μL	0.13 uL	Analytical Balance with	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;			Vapor Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)			ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	50.0 μL to	0.16 uL	Analytical Balance with	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;	200.0 μL		Vapor Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)	f.		ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	200.0 μL to	0.19 uL	Analytical Balance with	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;	300.0 μL		Vapor Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)			ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	300.0 μL to	0.31 uL	Analytical Balance with	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;	500.0 μL		Vapor Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)			ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	500.0 μL to	0.61 uL	Analytical Balance with	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;	1 000.0 μL		Vapor Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)			ASTM Class 0 Weights	BCC SOP-101		
Fluid Quantities	Piston-Operated Volumetric	1 000.0 μL to	1.3 uL	Analytical Balance with	ISO 8655	F1, F2, F3	F, O
	Apparatus (Pipettes; Dispensers;	2 500.0 μL		Vapor Trap	ISO TR-20461		
	Burettes; Dilutors; Syringes)			ASTM Class 0 Weights	BCC SOP-101		





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Fluid Quantities	Piston-Operated Volumetric Apparatus (Pipettes; Dispensers; Burettes; Dilutors; Syringes)	2 500.0 μL to 5 000.0 μL	9.1 uL	Analytical Balance with Vapor Trap ASTM Class 0 Weights	ISO 8655 ISO TR-20461 BCC SOP-101	F1, F2, F3	F, O
Fluid Quantities	Piston-Operated Volumetric Apparatus (Pipettes; Dispensers; Burettes; Dilutors; Syringes)	5 000.0 μL to 10 000.0 μL	14 uL	Analytical Balance with Vapor Trap ASTM Class 0 Weights	ISO 8655 ISO TR-20461 BCC SOP-101	F1, F2, F3	F, O
Fluid Quantities	Piston-Operated Volumetric Apparatus (Pipettes; Dispensers; Burettes; Dilutors; Syringes)	10 000.0 μL to 20 000.0 μL	16 uL	Analytical Balance with Vapor Trap ASTM Class 0 Weights	ISO 8655 ISO TR-20461 BCC SOP-101	F1, F2, F3	F, O
Fluid Quantities	Piston-Operated Volumetric Apparatus (Pipettes; Dispensers; Burettes; Dilutors; Syringes)	20 000.0 μL to 50 000.0 μL	20 uL	Analytical Balance with Vapor Trap ASTM Class 0 Weights	ISO 8655:2022 ISO TR-20461 BCC SOP-101	F1, F2, F3	F, O
Fluid Quantities	Piston-Operated Volumetric Apparatus (Pipettes; Dispensers; Burettes; Dilutors; Syringes)	50 000.0 μL to 100 000.0 μL	28 uL	Analytical Balance with Vapor Trap ASTM Class 0 Weights	ISO 8655 ISO TR-20461 BCC SOP-101	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	1 mg to 5 mg	0.001 4 mg	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	5 mg to 50 mg	0.015 mg	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	50 mg to 200 mg	0.005 9 mg	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	200 mg to 1 g	0.001 8 mg	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	1 g to 2 g	0.000 003 2 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O





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Mass, Force, and Weighing Device	Balances & Scales	2 g to 5 g	0.000 003 7 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	5 g to 10 g	0.000 005 5 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	10 g to 20 g	0.000 012 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	20 g to 50 g	0.000 014 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	50 g to 100 g	0.000 021 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	100 g to 200 g	0.000 028 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	200 g to 500 g	0.14 g	ASTM Class 0 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Mass, Force, and Weighing Device	Balances & Scales	500 g to 50 000 g	0.14 g	ASTM Class 1 Weights	EURAMET CG-18 BCC SOP-103	F1, F2, F3	F, O
Thermodynamic	Equipment to Measure Temperature	-150 °C to 450 °C	0.31 °C	Dual-Well Dry-Block Thermometer Calibrator Process Calibrator	BCC SOP-110	F1, F3	F, O
Electrical	Temperature Calibration, Indication and Control Equipment	-300 °C to 300 °C	0.016 mA	HART Temperature Transmitter with Process Calibrator	BCC SOP-110	F1, F3	F, O





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				owing conformity assessment a			
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
Electrical	Temperature Calibration,	300 °C to 600 °C	0.015 mA	Temperature Transmitter	BCC SOP-110	F1, F3	F, O
	Indication and Control Equipment		<u> </u>	with Process Calibrator			
Electrical	Temperature Calibration, Indication and Control	600 °C to 900 °C	0.016 mA	Temperature Transmitter with Process Calibrator	BCC SOP-110	F1, F3	F, O
	Equipment			With 11000s Canolator			
Electrical	Temperature Calibration,	900 °C to 1 200 °C	0.019 mA	Temperature Transmitter	BCC SOP-110	F1, F3	F, O
	Indication and Control	700 0 10 1 200 0	0.017 III.1	with Process Calibrator	Bee ser m	11,15	1,0
	Equipment			With 11000ss canonator			
Electrical	Temperature Calibration,	1 200 °C to	0.017 mA	Temperature Transmitter	BCC SOP-110	F1, F3	F, O
	Indication and Control	1 800 °C		with Process Calibrator		-	
	Equipment						
Time and	Equipment to Measure Rate of	Up to 100 RPM	1.7 RPM	Digital Tachometer	BCC SOP-104	F1, F3	F, O
Frequency	Rotation						
Time and	Equipment to Measure Rate of	100 RPM to	2.6 RPM	Digital Tachometer	BCC SOP-104	F1, F3	F, O
Frequency	Rotation	1000 RPM					
Time and	Equipment to Measure Rate of	1 000 RPM to	5.2 RPM	Digital Tachometer	BCC SOP-104	F1, F3	F, O
Frequency	Rotation	5 000 RPM					
Time and	Equipment to Measure Rate of	5 000 RPM to	7.1 RPM	Digital Tachometer	BCC SOP-104	F1, F3	F, O
Frequency	Rotation	10 000 RPM					
Time and	Equipment to Measure Rate of	10 000 RPM to	33 RPM	Digital Tachometer	BCC SOP-104	F1, F3	F, O
Frequency	Rotation	20 000 RPM					
Time and	Equipment to Measure Time	1 min to 5 min	0.056 s	Master Stopwatch	NIST 960-12	F1, F2, F3	F, O
Frequency					BCC SOP-105		
Time and	Equipment to Measure Time	5 min to 30 min	0.067 s	Master Stopwatch	NIST 960-12	F1, F2, F3	F, O
Frequency					BCC SOP-105		
Time and	Equipment to Measure Time	30 min to 1 hr	0.22 s	Master Stopwatch	NIST 960-12	F1, F2, F3	F, O
Frequency					BCC SOP-105		
Time and	Equipment to Measure Time	1 hr to 24 hr	0.42 s	Master Stopwatch	NIST 960-12	F1, F2, F3	F, O
Frequency					BCC SOP-105		





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

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FIELD OF	MEASURED	RANGE	EXPANDED	CALIBRATION	CALIBRATION	FLEX CODE	LOCATION
CALIBRATION	INSTRUMENT,	(AND SPECIFICATION	MEASUREMENT	EQUIPMENT AND	MEASUREMENT		OF
	QUANTITY OR GAUGE	WHERE	UNCERTAINTY (±) 1	REFERENCE	METHOD OR		ACTIVITY
	-	APPROPRIATE)	,	STANDARDS USED	PROCEDURES USED		
Chemical	pH meters	pH 4	0.022 pH	pH Buffer Solutions	ISO 23496	F1, F2, F3	F, O
					BCC SOP-106		
Chemical	pH meters	pH 7	0.022 pH	pH Buffer Solutions	ISO 23496	F1, F2, F3	F, O
					BCC SOP-106		
Chemical	pH meters	pH 10	0.026 pH	pH Buffer Solutions	ISO 23496	F1, F2, F3	F, O
					BCC SOP-106		

- 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	Location	
Code		
F	Conformity assessment activity is performed at the CABs fixed facility	
O	Conformity assessment activity is performed onsite at the CABs custome	r
	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.