PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Lake Balance Calibration Solutions

7722 Metric Drive, Mentor, OH 44060

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

ISO/IEC 17043:2010

This accreditation demonstrates technical competence for a defined scope and the operation of a proficiency testing provider quality management system

Proficiency Testing Provider

(As detailed in the supplement)

Accreditation claims for such reference material production 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, Michigan48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
March 07, 2020	August 18, 2022	November 30, 2024

Accreditation No.:	*Certificate No.:*
97175	L22-566-3

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

PJLA

Lake Balance Calibration Solutions

7722 Metric Drive, Mentor, OH 44060
Contact Name: Mark Hanson Phone: 440-299-4811

Accreditation is granted to the Organization for proficiency testing schemes as follows:

PT SCHEME/PROGRAM NAME	PT ITEM TYPE	MEASURAND(S) OR CHARACTERISTIC(S) OR WHERE APPROPRIATE THE TYPE OF MEASURAND(S) OR CHARACTERISTIC(S) THAT ARE TO BE IDENTIFIED, MEASURED OR TESTED
Mass and Mass Related - Calibration	Analytical Balances (0.000 1 g to 0.000 001 g)	Up to 200 g Uncertatinty 0.047 mg
	Balances (0.01 g)	Up to 3 kg Uncertainty 9.1 mg
	Bench Scales (0.01 kg)	Up to 15 kg Uncertainty 91 mg
	Three or Four Weights per Test	Up to 5 kg Uncertainty 0.002 mg to 3.4 mg
	Pipette	1 µL to 2 µL Uncertainty 0.04 µL 2 µL to 20 µL Uncertainty 0.11 µL 20 µL to 200 µL Uncertainty 0.17 µL 200 µL to 500 µL, Uncertainty 0.2 µL 500 µL to 1 000 µL Uncertainty 0.44 µL 1 mL to 10 mL Uncertainty 6.7 µL
Length – Dimensional Metrology – Calibration	Mircometers – Dimensional	Up to 1 in, Uncertainty 50 µin
	Calipers – Dimensional	Up to 6 in Uncertainty 660 µin Up to 12 in Uncertainty 730 µin
Thermodynamic – Calibration	Digital Thermometer – Temperature	-190 °C to 1 372 °C Uncertainty 0.4 °C to 0.9 °C
Rotation Speed	Tachometers	Up to 199 990 RPM, Uncertainty 0.001 6 RPM to 6.6 RPM
Electrical	Multimeters	Voltage, Resistance, Amperage, Capacitance
Pressure/Vacuum	Pressure Gate, Vacuum Gage	Vacuum :0.5 psia to 15 psia, Uncertaintry 0.000 53 psia to 0.0015 psia Pressure: Up to 20 000 psig Uncertainty 0.000 24 psig to 1.9 psig
Dimensional – Optical measurement	Stage Micrometers Glass Scale	X,Y Scale and Magnification Uncertainty 200 µin Angle: 0 to 360 ° Uncertainty of 0.11°
Mass Flow	Flow Meters	0.5 sccm to 5 000 SLpm Uncertainty 0.046 sccm to 13 SLpm