



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Distribuidora de Instrumentos y Equipos Científicos, S.A de C.V***  
*Av. Paseo de los Sauces, #3733, Del Paseo Residencial*  
*Monterrey, Nuevo León, México. C.P. 64920*

*(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, Thermodynamic, Mechanical, Electrical and Mass, Force and Weighing Devices 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:*

March 24, 2020

*Issue Date:*

January 10, 2022

*Expiration Date:*

March 31, 2024

*Accreditation No.:*

39924

*Certificate No.:*

L22-22

*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.pjllabs.com](http://www.pjllabs.com)*



# Certificate of Accreditation: Supplement

**Distribuidora de Instrumentos y Equipos Científicos, S.A de C.V**

Av. Paseo de los Sauces, # 3733, Del Paseo Residencial

Monterrey, Nuevo León, Mexico. C.P. 64920

Contact Name: Victor Manuel Morales Pinal Phone: 811-477-7907

*Accreditation is granted to the facility to perform the following calibrations:*

## Chemical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
pH Meters and Potentiometers <sup>FO</sup>	4 pH	0.15 pH	Standard Solutions ASTM E70
	7 pH	0.35 pH	
	10 pH	0.35 pH	
Conductivity Meters <sup>F</sup>	84 $\mu$ s	0.9 $\mu$ s	Standard Solutions Technical Guide CENAM
	1 413 $\mu$ s	13 $\mu$ s	
	12 880 $\mu$ s	54 $\mu$	
Karl Fisher Titration Equipment <sup>F</sup>	0.998 mg/g	0.17 mg/g	
	10.03 mg/g	0.18 mg/g	

## Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Temperature Function Thermo Balance – Temperature Function <sup>O</sup>	25 °C to 250 °C	1.5 °C	Temperature Sensor Euramet-cg-8
Temperature Bath <sup>O</sup> System Accuracy	-10 °C to 180 °C	2.3 °C	
Stoves and Incubators <sup>O</sup> System Accuracy	25 °C to 80 °C	2.3 °C	
Ovens and Muffles <sup>O</sup> System Accuracy	25 °C to 1 800 °C	2.3 °C	

## Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Burette <sup>FO</sup>	5 mL	30 $\mu$ L	Analytical Balance Technical Guide CENAM
	10 mL	50 $\mu$ L	
	25 mL	65 $\mu$ L	
	50 mL	120 $\mu$ L	
	100 mL	140 $\mu$ L	
Autoclave Pressure Scale <sup>FO</sup>	1 psi to 100 psi	3.9 psi	Analog Pressure Gauge Euramet-cg-17



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## Electrical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
pH Potentiometers <sup>FO</sup>	-415 mV to 415 mV (Up to 14 pH)	7.5 mV (0.17 pH)	Electrical Simulator of pH Signal OEM Procedure

## Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Analytical Balance <sup>O</sup>	1mg to 200 mg (Res.= 1 mg)	$(1.85 \times 10^{-2} + 3.08 \times 10^{-4}Wt)$ mg	Mass Set ASTM Class 1 Technical Guide CENAM
Balances <sup>O</sup>	10 g to 1 000 g (Res.= 0.1 g)	$(8.07 \times 10^{-2} + 3.04 \times 10^{-5}Wt)$ g	
Scale <sup>FO</sup>	1 kg to 160 kg Res= 10 g	8.6 g	Mass Set Class M1 Technical Guide CENAM

- 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.
- 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.
- The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this calibration at its fixed location.
- The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer<sup>O</sup> would mean that the laboratory performs this calibration onsite at the customer's location.
- The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer<sup>FO</sup> would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
- 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.
- The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.