



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

### ***Atrya Lab. S.A. de C.V.***

***Av. Rio Consulado # 2614, Col. San Juan de Aragón  
Ciudad de México, México, México. C.P. 07920***

*(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):

***Dimensional, Mechanical, Thermodynamic, Chemical, 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:

*Initial Accreditation Date:*

*Issue Date:*

*Expiration Date:*

September 16, 2011

November 23, 2021

December 31, 2023

*Accreditation No.:*

*Certificate No.:*

70557

L21-724

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



# Certificate of Accreditation: Supplement

## Atrya Lab. S.A. de C.V

Av. Rio Consulado #2614, Col. San Juan de Aragón  
 Ciudad de México, México, México. C.P. 07920  
 Contact Name: Angel Martinez Phone: 552-603-7450

Accreditation is granted to the facility to the following Calibration:

### Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Height Gages <sup>FO</sup>	20 mm to 600 mm	$(11.49 + 4.39 \times 10^{-3}L) \mu\text{m}$	Step Master Gage Block Set Grade 0 NMX-CH-141-IMNC
Calipers <sup>FO</sup>	2.5 mm to 600 mm	$(12.62 + 4.77 \times 10^{-3}L) \mu\text{m}$	Step Master Gage Block Set Grade 0 NMX-CH-002-IMNC NMX-CH-099-IMNC
Micrometer <sup>FO</sup>	2.5 mm to 25 mm	$(1.19 + 2.38 \times 10^{-3}L) \mu\text{m}$	
Long Stem Indicators <sup>FO</sup>	0.01 mm to 25 mm	$(2.97 + 1.51 \times 10^{-1}L) \mu\text{m}$	Indicator Calibrator NMX-CH-036 SCFI
Indicator Thickness Gages <sup>FO</sup>	0.01 mm to 12 mm	$(8.64 \times 10^{-1} + 4.9 \times 10^{-1}L) \mu\text{m}$	
Magnetic Indicator Thickness Gages <sup>FO</sup>	0.001 mm to 6.35 mm	$(6.31 + 2.66L) \mu\text{m}$	Master Sheets ISO 2178
Magnetic Indicator <sup>FO</sup>	0.001 mm to 9 mm	0.38 mm	Standard Block ISO 2178
Digital Level <sup>FO</sup>	0° to 180°	7.1°	Goniometer Transporter JIS B 7510
Optical Comparator <sup>FO</sup> X axis Linearity Y axis Linearity	1 mm to 80 mm	0.33 mm	Glass Scale Procedure DI-001 CEM
	1 mm to 80 mm	0.33 mm	
Plastometer Die <sup>FO</sup>	2.11 mm	0.007 mm	Optical Comparator ASTM D 1238

### Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Liquid in Glass Thermometer <sup>FO</sup>	0 °C to 300 °C	0.12 °C	RTD Thermometer NOM-011-SCFI
Bimetal Thermometer <sup>FO</sup>	0 °C to 300 °C	0.13 °C	RTD Thermometer PROY-NMX-CH-270 IMNC
Digital Thermometer <sup>FO</sup>	-20 °C to 150 °C	0.029 °C	Temperature Calibrator Ametek Procedure TH-01 CEM
Incubators, Ovens <sup>FO</sup>	-20 °C to 150 °C	0.029 °C	Temperature Calibrator Black Stack Eurame-cg-20



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### Thermodynamic

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Plastometer Temperature <sup>FO</sup>	0 °C to 230 °C	0.59 °C	Thermometer Brand: Jofra Model: DTI-100A Platinum Resistance Brand: Jofra Model: STS-100A 250 ASTM D 1238
Thermo-Hygrometer Humidity <sup>FO</sup>	30 % RH to 90 % RH	1.7 % RH	Thermo-Hygrometer Master Brand: CEM / Model: DT-321S Humidity Resolution: 0.01 % Temperature Resolution: 0.01 °C Operating Environment: Humidity and Temperature Chamber Euramet-cg-20
Thermo-Hygrometer Temperature <sup>FO</sup>	25 °C to 50 °C	0.92 °C	

### Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Internal Pressure Tester <sup>FO</sup>	30 psi to 300 psi	1.2 psi	Standard Manometer Ametek HP2i Euramet-cg-17
Vacuum Chamber <sup>FO</sup>	-1 inHg to -20 inHg	0.29 inHg	Standar Vacuometer Ametek HP2i Euramet-cg-17
Pressure Gages <sup>FO</sup>	1 psi to 300 psi	0.12 % of reading	Standard Manometer Ametek HP2i Euramet-cg-17
Digital Torque Tester and Spring Torque Tester <sup>F</sup>	1 lbf·in to 100 lbf·in	0.22 lbf·in	Weight Block Set and 4 in Wheel NMX-CH-6789-IMNC
Vacuum Gage <sup>FO</sup>	-30 inHg to -1 inHg	0.3 inHg	Standar Vacuometer Ametek HP2i Euramet-cg-17



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Accreditation is granted to the facility to the following Calibration:

### Mass, Force and Weighing Devices

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Scales and Balances <sup>O</sup>	1 g to 500 g (Res.= 0.001 g)	$(1.2 \times 10^{-3} + 6.48 \times 10^{-7} \text{Wt}) \text{ g}$	OIML Class E2 Weights Set NOM-010-SCFI
	1 g to 5 000 g (Res.= 0.01 g)	$(1.16 \times 10^{-2} + 3.91 \times 10^{-6} \text{Wt}) \text{ g}$	
	1 kg to 10 kg (Res.= 100 mg)	$(1.15 \times 10^{-1} + 7.25 \times 10^{-7} \text{Wt}) \text{ kg}$	
	10 kg to 50 kg (Res.= 2 g)	$(2 \times 10^{-3} + 1.12 \times 10^{-4} \text{Wt}) \text{ kg}$	
Scales and Balances <sup>O</sup>	10 kg to 50 kg (Res.= 10 g)	$(1.15 \times 10^{-2} + 3.14 \times 10^{-5} \text{Wt}) \text{ kg}$	OIML Class M2 Weights Set NOM-010-SCFI
	50 kg to 500 kg (Res.= 20 g)	$(2.31 \times 10^{-2} + 1.6 \times 10^{-5} \text{Wt}) \text{ kg}$	
	500 kg to 1 000 kg (Res.= 100 g)	$(1.6 \times 10^{-1} + 3.22 \times 10^{-6} \text{Wt}) \text{ kg}$	
Mass M1, M2, M3 <sup>F</sup>	1 g	0.19 mg	Master Weight F1 NOM-038-SCFI
	2 g	0.19 mg	
	5 g	0.19 mg	
	10 g	0.6 mg	
	20 g	0.6 mg	
	50 g	0.6 mg	
	100 g	0.62 mg	
	200 g	0.7 mg	
	500 g	3 mg	
	1 000 g	6 mg	
	2 000 g	7 mg	
Force Gauge Tension and Compression <sup>FO</sup>	10 N to 1 000 N	0.45 % of reading	Load Cell NMX-CH-7500-1-IMNC
	10 KN to 100 KN	0.44 % of reading	
Plastometer Mass <sup>F</sup>	2 060 g Weighed to Plastometer	0.13 g	Weight Frame NOM-010-SCFI



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### Chemical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ )	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
pH Meter <sup>FO</sup>	4.7 pH to 10 pH	0.87 pH	Buffer Solution Procedure QU-003 CEM
Gas Analyzer Fixed Point <sup>FO</sup>	O <sub>2</sub> : 20.9 %	2 % of reading	Master Gasses Procedure QU-012 CEM
	CO <sub>2</sub> : 30 %	2 % of reading	
	CO <sub>2</sub> : 60 %	2 % of reading	
	CO <sub>2</sub> : 100 %	2 % of reading	

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. 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.
4. 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.
5. 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.
6. 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.
7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
8. The term Wt represents weight in pounds or grams (including SI multiple and submultiples units) appropriate to the uncertainty statement.