PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520

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:

Mass, Force and Weighing Devices, Mechanical, Thermodynamic and Dimensional 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:

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:*
May 01, 2010	May 02, 2025	June 30, 2027

Accreditation No.:	*Certificate No.:*
57470	L25-404

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

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Mass, Force and Weighing Devices	Weighing Devices Scales and Balances	1 g to 200 g (Res.= 0.000 01 g)	$(0.02 + 9 \times 10^{-4}Wt)$ mg	OIML Class E2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	1 g to 200 g (Res.= 0.000 1 g)	$(0.08 + 6.6 \times 10^{-4}Wt)$ mg	OIML Class E2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	1 g to 500 g (Res.= 0.000 5 g)	(0.6 + 0.92 x 10-^{3}Wt) mg	OIML Class E2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	100 g to 5 000 g (Res.= 0.001 g)	(0.1 + 9.2 x 10-3Wt) mg	OIML Cass F2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	100 g to 10 000 g (Res.= 0.01 g)	$(6.4 + 18 \times 10^{-3}Wt)$ mg	OIML Cass F2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	100 g to 20 000 g (Res.= 0.02 g)	$(14.6 + 18 \times 10^{-3}Wt)$ mg	OIML Cass F2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	5 000 g to 50 000 g (Res.= 2 g)	$(1.6 + 1.2 \times 10^{-5}Wt)$ g	OIML Class M1	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	5 000 g to 100 000 g (Res.= 5 g)	$(4.1 + 8.7 \times 10^{-6}Wt)$ g	OIML Class M1	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	5 000 g to 200 000 g (Res.= 10 g)	$(3.7 + 6.9 \times 10^{-5}Wt)$ g	OIML Class M2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	5 000 g to 500 000 g (Res.= 20 g)	$(16 + 6.2 \times 10^{-5}Wt)$ g	OIML Class M2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weighing Device Scales and Balances	5 000 g to 1 000 000 g (Res.= 50 g)	$(41 + 5.6 \times 10^{-5}Wt)$ g	OIML Class M2	CENAM Technical Guide	O
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	1 mg	0.02 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F

Certificate of Accreditation: Supplement

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	2 mg	0.02 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	5 mg	0.02 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	10 mg	0.025 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	20 mg	0.03 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	50 mg	0.04 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	100 mg	0.05 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	200 mg	0.06 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F

Certificate of Accreditation: Supplement

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Mass, Force and Weighing Devices	Weight Set Class F2 OIML R111	500 mg	0.08 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	1 g	0.03 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	2 g	0.04 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	5 g	0.05 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	10 g	0.06 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	20 g	0.08 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	50 g	0.1 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F

Certificate of Accreditation: Supplement

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	100 g	0.15 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	200 g	0.3 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	500 g	0.75 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	1 kg	1.5 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	2 kg	3 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class F1 OIML R111	5 kg	7.5 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class M1 OIML R111	10 kg	150 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F

Certificate of Accreditation: Supplement

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Mass, Force and Weighing Devices	Weight Set Class M1 OIML R111	20 kg	300 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mass, Force and Weighing Devices	Weight Set Class 6, 7 ASTM E 617	25 kg	840 mg	Weight Set Sartorious 1 mg to 1 kg, 5 kg, 10 kg, 20 kg Mass, Troemner OIML Class E2	CENAM Technical Guide Internal Procedure M-01	F
Mechanical	Pressure/Vacuum Gauges	-10 psi to 0 psi	0.01 psi	Digital Manometer, Fluke	CENAM Technical Guide	F
Mechanical	Pressure/Vacuum Gauges	0 psi to 36 psi	0.02 psi	Digital Manometer, Fluke	CENAM Technical Guide	F
Mechanical	Pressure Manometers	10 psi to 100 psi	0.4 psi	Pressure Gage, Krystal	CENAM Technical Guide	F
Mechanical	Pressure Manometers	150 psi to 1 500 psi	1.1 psi	Pressure Gage, Krystal	CENAM Technical Guide	F
Mechanical	Pressure Recorders	300 psi to 3 000 psi	1.5 psi	Dead Weight Balance, Ametek	CENAM Technical Guide	F
Mechanical	Pressure Transmitters	300 psi to 3 000 psi	1.5 psi	Dead Weight Balance, Ametek	CENAM Technical Guide	F
Mechanical	Digital Gauges	300 psi to 3 000 psi	1.5 psi	Dead Weight Balance, Ametek	CENAM Technical Guide	F
Mechanical	Piston Burette	1 mL to 100 mL	0.2 % of reading	Gravimetric Method Balance Mettler AT201 200 g to 0.01 mg Balance Mettler 0 to 5 kg to 1 mg Mass OIML E2	CENAM Technical Guide	F, O

Certificate of Accreditation: Supplement

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Mechanical	Graduated Cylinder	50 mL to 1 000 mL	0.15 % of reading	Gravimetric Method Balance Mettler AT201 200 g to 0.01 mg Balance Mettler 0 to 5 kg to 1 mg Mass OIML E2	CENAM Technical Guide	F
Thermodynamic	Liquid in Glass Thermometer	0 °C to 250 °C	0.08 °C	Precision Thermometer ASL, Model: AF250 -30 °C to 420 °C (Res.= 0.001 °C) Liquid Bath (0 °C to 250 °C)	CENAM Technical Guide	F
Thermodynamic	Direct Reading Thermometer	100 °C to 200 °C	0.1 °C	Precision Thermometer, ASL, Model: AF250 -30 °C to 420 °C (Res.= 0.001 °C)	CENAM Technical Guide	O
Thermodynamic	Direct Reading Thermometer	200 °C to 250 °C	0.2 °C	Precision Thermometer, ASL, Model: AF250 -30 °C to 420 °C (Res.= 0.001 °C)	CENAM Technical Guide	O
Thermodynamic	Furnaces Muffle	0 °C to 950 °C	0.6 °C	Digital Thermometer, Thermocouple Type S	CENAM Technical Guide	O
Thermodynamic	Temperature Measurement Thermocouple Type B	0 °C to 250 °C	0.58 °C	Precision Thermometer ASL, Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F

Certificate of Accreditation: Supplement

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Thermodynamic	Temperature Measurement Thermocouple Type J	0 °C to 250 °C	0.58 °C	Precision Thermometer ASL, Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F
Thermodynamic	Temperature Measurement Thermocouple Type K	0 °C to 250 °C	0.58 °C	Precision Thermometer ASL Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F
Thermodynamic	Temperature Measurement Thermocouple Type N	0 °C to 250 °C	0.58 °C	Precision Thermometer ASL Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F
Thermodynamic	Temperature Measurement Thermocouple Type S	0 °C to 250 °C	0.58 °C	Precision Thermometer ASL Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F
Thermodynamic	Temperature Measurement Thermocouple Type T	0 °C to 250 °C	0.58 °C	Precision Thermometer ASL Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F
Thermodynamic	RTD Measure Pt 385, 100Ω	0 °C to 250 °C	0.75 °C	Precision Thermometer ASL Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F
Thermodynamic	RTD Measure Pt 385, 1 000Ω	0 °C to 250 °C	0.75 °C	Precision Thermometer ASL Mod. AF250 -30 °C to 420 °C	CENAM Technical Guide	F
Thermodynamic	Hygrometers and Recorders	33 % RH to 75 % RH	2 % RH	Humidity Temperature Digital Hygrometer UNI-T, UT332, Humidity Chamber	CENAM Technical Guide	F

Certificate of Accreditation: Supplement

Tamoxlab, S.A de C.V.

Miguel Hidalgo # 221, Col. Héroe de Nacozari
Cd. Madero, Tamaulipas, México. C.P. 89520
Contact Name: Jose Luis Rios Phone: 833-211-3184

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

FIELD OF CALIBRATION	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	LOCATION OF ACTIVITY
Dimensional	Calipers	0.1 in to 8 in	(351.6 + 81.8L) µin	Block Set Standard	CENAM Technical Guide	F
Dimensional	Micrometers	0.1 in to 1 in	(55.7 + 16.6L) µin	Block Set Standard	CENAM Technical Guide	F
Dimensional	Indicator	0.1 in to 1 in	(284.22 + 95.79L) µin	Block Set Standard	CENAM Technical Guide	F

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 Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location
M	Conformity assessment activity is performed from a mobile facility

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.

5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.