



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

SIVACC KS, S.A. de C.V

M.J. Clouthier No. 108 piso 11, Burócratas San Luis Potosi, San Luis Potosi, C.P. 78270

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2005

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 January 2009):

Thermodynamic, Chemical, Volume, and Mechanical 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/Operations Manager

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

Initial Accreditation Date:

December 01, 2017

Issue Date:

December 01, 2017

Expiration Date:

March 31, 2020

Accreditation No.:

92388

Certificate No.:

L17-513

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.pjilabs.com



Certificate of Accreditation: Supplement

SIVACC KS, S.A. de C.V

M.J. Clouthier No. 108 piso 11, Burócratas
San Luis Potosí, San Luis Potosí, C.P. 78270
Contact Name: Saul Peña Herrera. Phone: 551-209-1158

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

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 Measurement Thermocouple Type J, K and T ^{FO}	-30 °C to 420 °C	0.1 °C	Platinum Resistance Thermometer Class A Liquid Bath (-30 °C to 420 °C)
Liquid in Glass Thermometer ^F	-30 °C to 200 °C	0.09 °C	
Measurement Temperature Transmitter and Indicator ^{FO}	-30 °C to 420 °C	0.09 °C	

Volume

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
Micropipettes Fixed Point ^{FO}	500 μ L	1.5 μ L	Analytic Balance (Res.= 0.000 1 g)
	1 000 μ L	3 μ L	
Pipettes Fixed Point ^{FO}	1 mL	3 μ L	
	2 mL	6 μ L	
	5 mL	15 μ L	
	10 mL	30 μ L	
	500 mL	1 500 μ L	
Burettes Fixed Point ^{FO}	1 mL	4 μ L	
	2 mL	8 μ L	
	5 mL	20 μ L	
	10 mL	40 μ L	
	20 mL	80 μ L	
	25 mL	100 μ L	
	50 mL	200 μ L	
Volumetric Dispenser Fixed Point ^{FO}	1 mL	5 μ L	
	2 mL	10 μ L	
	5 mL	25 μ L	
	10 mL	50 μ L	
	20 mL	100 μ L	
	25 mL	125 μ L	



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Volume

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
Volumetric Dispenser Fixed Point ^{FO}	50 mL	250 μ L	Analytic Balance (Res.= 0.000 1 g)
	100 mL	500 μ L	
Flasks Fixed Point ^{FO}	1 mL	2.5 μ L	
	2 mL	5 μ L	
	5 mL	12.5 μ L	
	10 mL	25 μ L	
	20 mL	50 μ L	
	25 mL	62.5 μ L	
	50 mL	125 μ L	
100 mL	250 μ L		

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
Mass Flow Meter ^{FO}	52 kg/min to 3 500 kg/min	0.07 % of reading	Flow Meter Coriolis
Volumetric Flow Meter ^{FO}	52 L/min to 3 500 L/min	0.07 % of reading	

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 Digital Meter ^{FO}	4 pH to 10 pH	0.025 pH	Buffers Solutions 4 pH, 7 pH and 10 pH
Conductivity Measure Instrument ^{FO}	84 μ s/cm ² to 1 413 μ s/cm ²	0.8 μ s/cm ²	SRM # CNM-MR-620-0414/2017 BY CENAM

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.



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

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. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
4. 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^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
5. 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.