

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

HQ - Corporación BH, S.C.

Sierra del Fraile # 117, Col. Arrovo Seco Monterrey, Nuevo León, México C.P. 64740

Site – Etalons, S.A. de C.V.

Rio Panuco #3508, Col. Villa Los Pinos Monterrey, Nuevo León, México C.P. 64770

(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, Time & Frequency, Mass, Force and Weighing Devices, Mechanical, Volume, Thermodynamic, Chemical and Electrical 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: August 14, 2012 Accreditation No.:

August 20, 2020

Issue Date:

October 31, 2022

Expiration Date:

73706

Certificate No.: L20-500

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



Site - Etalons, S.A de C.V

Rio Panuco #3508, Col. Villa Los Pinos Monterrey, Nuevo León, México C.P. 64770 Contact Name: Roberto Benitez Phone: 818-398-2950

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

Dimensional			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Micrometers ^{FO}	0.05 in to 24 in	(52 + 16L) μin	Grade 1 Gage Blocks NMX-CH-093-IMNC
Calipers ^{FO}	0.05 in to 24 in	(392 + 16L) µin	Grade 1 Gage Blocks NMX-CH-002-IMNC
Indicators ^{FO}	0.005 in to 2 in	(384 + 16L) µin	Micrometer head Cal JIS B 7503
Height Gages ^{FO}	0.05 in to 24 in	(392 + 16L) µin	Grade 1 Gage Blocks JIS B 7517
Rules and Tapes ^{FO}	2 mm to 1 000 mm	(570 + 0.24L) μm	Magnifier and Linear Scales JIS B 7516
Thread Plug Gage3 Pitch Diameter ^{FO}	0-80 to 1-12	210 µin	Three Wire Method and Digital Micrometer ANSI/ASME B1.2

Chemical

Chemical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
pH Measure ^{FO}	4 pH	0.02 pH	Standard Solutions
	7 pH	0.02 pH	NMX-AA-093-SCFI
	10 pH	0.02 pH	
Conductivity Measure	0.1 mS	1.6 μ S	
Fixed Point ^{FO}	1.44 mS	14 μS	
	12.88 mS	130 µS	
Volumetric Gas ^{FO}	2.5 cc/min to 250 cc/min	5.4 % of reading	TSI 4140
			CENAM Technical Guide

Mass, Force and Weighing Devices

111035,1 0100 0110 1101	<u> </u>		
MEASURED INSTRUM	RANGE OR NOMINAL DEVICE	CALIBRATION AND	CALIBRATION
ENT, QUANTITY OR	SIZE AS APPROPRIATE	MEASUREMENT	EQUIPMENT
GAUGE		CAPABILITY EXPRESSED	AND REFERENCE
		AS AN UNCERTAINTY (±)	STANDARDS USED
Analytical Balances ^{FO}	1 mg to 100 g	0.58 mg	Class 1 and Class F
	100 g to 20 kg	1.2 g	NOM-CH-10-SCFI
	20 kg to 1 000 kg	0.12 kg	
Weights ^{FO}	20 kg	3.2 g	Weight 20 kg Class –M3
_	-	_	PPC-1-MAS-05
			NOM-038-SCFI-2000



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Mass, Force and Weighing Devices

MEASURED INSTRUM ENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Weights ^{FO}	5 kg	0.06 g	Weights Class F OIML R111 NOM-038-SCFI
Force Gauge Tension ^{FO}	5 kgf to 250 kgf	0.7 kgf	Hanging Method Class M2 ISO 7500
	4.59 lbf to 100 lbf	5.8 % of reading	Load Cell Strain Sense SST101UF ASTM-E4-10
	100 lbf to 1 000 lbf	0.48 % of reading	Load Cell Strain Sense SST102UF ASTM-E4-10
	1 000 lbf to 10 000 lbf	1.1 % of reading	Load Cell Strain Sense SST103UF ASTM-E4-10
Force Gauge Compression ^{FO}	9.41 lbf to 100 lbf	5.8 % of reading	Load Cell Strain Sense SST101UF ASTM-E4-10
	100 lbf to 1 000 lbf	0.55 % of reading	Load Cell Strain Sense SST102UF ASTM-E4-10
	1 000 lbf to 10 000 lbf	1.1 % of reading	Load Cell Strain Sense SST103UF ASTM-E4-10

Mechanical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Patient Monitors ⁰ Non-Invasive Blood Pressure	30 mmHg to 255 mmHg	0.8 mmHg	Prosim 8, Prosim SPOT Light SpO2 Fluke PPC-1-BIO-2 NOM-009-SCFI
Baumanometers ⁰	30 mmHg to 300 mmHg	0.8 mmHg	Prosim 8 Fluke PPC-1-BIO-4 NOM-009-SCFI
Torque Tester Analog/Digital ^{FO}	50 lbf·ft to 1 000 lbf· ft	0.25 % of reading	Torque Cell PPC-1-TOR-01 B107.14M-1994



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Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Torque Tools ^{FO}	25 lbf·in to 250 lbf·in	1 % of reading	Load Cell Mountz BMX-250i ANSI/ASME B107.14M
	10 lbf·ft to 100 lbf·ft	1 % of reading	Load Cell Mountz BMX -100F ANSI/ASME B107.14M
Torque Tools ^{FO}	100 lbf·ft to 1 000 lbf·ft	1 % of reading	Load Cell Mountz BMX-1 000F ANSI/ASME B107.14
Pressure ^{FO}	3 psi to 300 psi	0.25 % of reading	Druck Pressure Calibrator PROY-NMX-CH-201-IMNC
	300 psi to 3 000 psi	0.25 % of reading	Crystal Calibrator PROY-NMX-CH-201-IMNC
Vacuum ^{FO}	-11 psi to 0.5 psi	0.06 psi	Druck Pressure Calibrator PROY-NMX-CH-201-IMNC

Volume

volume			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Single Delivery Mechanical Piston Dispensers ^{FO}	1 mL to 200 mL	0.2 % of reading	Analytical Balance SARTORIUS, LA230S Mettler Toledo,
Diffusers ^{FO}	1 mL to 100 mL	0.2 % of reading	XP 5003SDR
Pipettes ^{FO}	1 mL to 10 mL	0.015 % of reading	NMX-CH-049- IMNC
	10 mL to 100 mL	0.2 % of reading	
Volumetric Flasks ^{FO}	1 mL to 5 L	0.1 % of reading	
Burettes ^{FO}	1 mL to 100 mL	0.07 % of reading	
	100 mL to 1 L	0.01 % of reading	
Test Tubes ^{FO}	25 mL to 500 mL	0.1 % of reading	
Volumetric Graduated Neck Flask ^{FO}	1 L to 20 L	0.015 % of reading	Balance SARTORIUS 3808 MP8-1 Analytical Balance Mettler Toledo, XP 5003SDR NMX-CH-049- IMNC
Pycnometers Gay- Lussac ^{FO}	10 mL to 100 mL	0.005 % of reading	Analytical Balance Mettler Toledo, XP 5003SDR NMX-CH-049- IMNC



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Thermodynamic

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Direct Reading Thermometer ^{FO}	40 °C to 200 °C	0.31 °C	Micro Bath 6102 NMX-CH-70-SCFI
	-15 °C to 350 °C	0.68 °C	Hart Calibrator 9009 NMX-CH-70-SCFI
Infrared Temperature Measuring Instrument ^{FO}	50 °C to 450 °C	0.81°C	Hart Calibrator 9132 PPC-1-TEM-05 CCT-W65 Radiation Thermometry
Relative Humidity At 20 °C Dry Bulb ^{FO}	5 % RH to 95 % RH	1.6 % RH	Rotronic Hygro P2 PPC-1-TEM-06 CENAM Technical Guide Nov.2012
Temperature Chamber ^F	-50 °C to 300 °C	0.65 °C	Data Logger Manufacturer Etalons Model: ETA-DAQ-01 AMS2750
Relative Humidity Chamber ^F	35 % RH to 95 % RH	1.2 % RH	Rotronic Hydropalm HP-22A AMS2750

Electrical

Electrical			
MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Output	9 μV to 330 mV	81 μV/V + 3 μV	Fluke 5500A
DC Voltage ^{FO}	330 mV to 3 V	62 μV/V + 5 μV	Euramet-cg-15
	3 V to 30 V	62 μV/V + 50 μV	
	30 V to 30 V	67 μV/V + 1.5 μV	
	30 V to 1 000 V	67 μV/V + 1.5 mV	
Equipment to Output DC Voltage ^{FO}	30 mV to 1 000 V	0.1 % of Output + 10 mV	Fluke 45 PPC-1-ELE-08 EN 60060-2:2011
	1 kV to 30 kV	0.6 % of Output + 30 V	ESH Electrostatic Voltmeter PROY-NMX-CH-515-1- IMNC
Equipment to Output DC Current ^{FO}	0.33 A to 11 A	0.097 % of Output + 160 μA	Fluke 5500 A and 50 Turn Coil ANSI C39.1: 81



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Electrical MEASURED INSTRUMENT,	RANGE OR NOMINAL DEVICE	CALIBRATION AND	CALIBRATION
QUANTITY OR GAUGE	SIZE AS APPROPRIATE	MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	EQUIPMENT AND REFERENCE STANDARDS USED
Clamp-On Meters ^{FO}	3.3 mA to 550 A	0.35 % of Output + 0.018A	Fluke 5500 A and 50 Turn Coi ANSI C39.1: 81
Equipment to Measure DC Power ^{FO}	0.1 mW to 11.22 kW	0.14 % of Output + 0.45 μW	Fluke 5500 A Euramet-cg-15
Equipment to Measure	0.25 Ω to 10.99 Ω	0.013 % of Output + 0.008 Ω	_
Resistance ^{FO}	11 Ω to 329.999 Ω	0.01 % of Output + 0.015 Ω	
	330 Ω to 3.299 99 kΩ	0.01 % of Output + 0.06 Ω	
	3.3 kΩ to 32.999 9 kΩ	0.01 % of Output + 0.6 Ω	
	33 kΩ to 329.999 kΩ	0.013 % of Output + 6 Ω	
	330 kΩ to 3.299 99 MΩ	0.017 % of Output + 55 Ω	
	3.3 MΩ to 32.999 9 MΩ	0.11 % of Output + 550 Ω	
	33 MΩ to 109.999 MΩ	0.57 % of Output + 5.5 kΩ	
	110 MΩ to 330 MΩ	0.57 % of Output + 17 kΩ	
	1 Ω to 1.111 110 MΩ	0.01 % of Output + 2 m Ω	GENRAD 1433B
	1 kΩ to 1 TΩ	2 % of Output	IET VRS-100-101K-BP
Equipment to Measure	0.33 nF to 0.499 9 nF	0.62 % of Output + 16 pF	Fluke 5500A Euramet-cg-15
Capacitance @ 1 kHz ^{FO}	0.5 nF to 1.099 9 nF	0.6 % of Output + 12 pF	
	1.1 nF to 3.299 9 nF	0.58 % of Output + 12 pF	
	3.3 nF to 10.999 nF	0.49 % of Output + 25 pF	
	11 nF to 32.999 nF	0.29 % of Output + 120 pF	
	33 nF to 109.99 nF	0.29 % of Output + 120 pF	
	110 nF to 329.99 nF	0.33 % of Output + 300 pF	
	0.33 nF to 1.099 9 µF	0.28 % of Output + 1.6 nF	-
	1.1 μF to 3.299 9 μF	0.42 % of Output + 3.5 nF	
	3.3 µF to 10.999 µF	0.42 % of Output + 12 nF	
	11 μF to 32.999 μF	0.5 % of Output + 32 nF	
	33 μF to 109.99 μF	0.63 % of Output + 0.13 μF	
	110 μF to 329.99 μF	0.82 % of Output + 1.6 μF	
	330 µF to 1.1 mF	1.3 % of Output + 0.16 µF	
Equipment to Measure Capacitance @ 1 kHz ^{FO}	1 pF to 1.1 μF	0.5 % of Output + 5 pF	GenRad 1412BC PPC-1-ELE-09 CENAM Tashrical Cuida
Equipment to Measure Capacitance to Fixed Points ^{FO}	0.001 μF	0.5 % of Output	CENAM Technical Guide GenRad 1409F PPC-1-ELE-09 CENAM Technical Guide

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Equipment to Measure Capacitance to Fixed Points ^{FO}	0.001 μF	0.5 % of Output	GenRad 1409F PPC-1-ELE-09 Guia Tecnica CENAM
	1 μF	0.06 % of Output	GenRad 1409Y PPC-1-ELE-09 ANSI-C-39-6-1983
Equipment to Measure Inductance Fixed Point @ 1 kHz ^{FO}	200 μH	0.29 % of Output	GenRad 1482C PPC-1-ELE-09 ANSI-C-39-6-1983
	2 mH	0.12 % of Output	GenRad 1482F PPC-1-ELE-09 ANSI-C-39-6-1983
	2 H	0.12 % of Output	GenRad 1482Q PPC-1-ELE-09 ANSI-C-39-6-1983
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			Fluke 5500A Euramet-cg 15
10 Hz to 45 Hz	33 mV to 329.999 mV	960 Mv	
45 Hz to 10 kHz	33 mV to 329.999 mV	260 μV	
10 kHz to 20 kHz	33 mV to 329.999 mV	350 µV	
20 kHz to 50 kHz	33 mV to 329.999 mV	680 μV	
50 kHz to 100 kHz	33 mV to 329.999 mV	1 100 μV	
100 kHz to 500 kHz	33 mV to 329.999 mV	2 700 μV	
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			
10 Hz to 45 Hz	0.33 V to 3.299 99 V	10 mV	
45 Hz to 10 kHz	0.33 V to 3.299 99 V	19 mV	
10 kHz to 20 kHz	0.33 V to 3.299 99 V	3 mV	
20 kHz to 50 kHz	0.33 V to 3.299 99 V	10 mV	
50 kHz to 100 kHz	0.33 V to 3.299 99 V	10 mV	1
100 kHz to 500 kHz	0.33 V to 3.299 99 V	23 mV	
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			
10 Hz to 45 Hz	3.3 V to 32.999 9 V	60 mV	
45 Hz to 10 kHz	3.3 V to 32.999 9 V	20 mV	
10 kHz to 20 kHz	3.3 V to 32.999 9 V	30 mV	



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Equipment to Measure			Fluke 5500A
AC Voltage			Euramet-cg-15
At the listed frequencies ^{FO} 20 kHz to 50 kHz	3.3 V to 32.999 9 V	80 mV	-
50 kHz to 100 kHz	3.3 V to 32.999 9 V	190 mV	-
45 Hz to 1 kHz	33 V to 329.999 V	580 mV	-
1 kHz to 10 kHz	33 V to 329.999 V	300 mV	-
10 kHz to 20 kHz	33 V to 329.999 V	2 300 mV	-
45 Hz to 1 kHz	330 V to 1 000 V	2 200 mV	-
1 kHz to 10 kHz	330 V to 1 000 V	2 600 mV	-
Equipment to Measure AC Voltage At the listed frequencies ^{FO}			Fluke 45 Euramet-cg-15
45 Hz to 20 kHz	675 mV to 750 V	0.07 % of reading + 225 mV	
45 Hz to 10 kHz	0.75 kV to 30 kV	0.7 % of reading + 30 V	Electrostatic Voltmete PPC-1-ELE-03 EN 60060-2:2011
Equipment to Output AC Current At the listed frequencies ^{FO}			Fluke 5500A and 50 Tum Coil ANSI C39.1: 81
10 Hz to 10 kHz	0.029 mA to 0.329 9 mA	0.14 % of reading + 0.25 µA	
10 Hz to 10 kHz	0.33 mA to 3.299 9 mA	0.12 % of reading + 0.3 µA	
10 Hz to 10 kHz	3.3 mA to 32.999 mA	0.1 % of reading + $3 \mu A$	
10 Hz to 10 kHz	33 mA to 329.99 mA	0.1 % of reading + 30 µA	
10 Hz to 5 kHz	0.33 A to 2.199 99 A	0.16 % of reading + 300 µA	
10 Hz to 3 kHz	2.2 A to 11 A	0.1 % of reading + 2 μ A]
Clamp-On Meters ^{FO} 46 Hz to 65 Hz	10 A to 550 A	0.37 % of reading + 0.04 µA	
AC Power Generate – Up to 1000 V @ 60 Hz ^{FO}	0.1 mW to 11.22 kW	0.18 % of Output + 0.16 mW	Fluke 5500 A PPC-1-ELE-10 ANSI-C39-1-1981
Temperature Calibration,	-200 °C to -80 °C	0.19 °C	Fluke 5500A and
Indication and Control Equipment used with RTD	-80 °C to 0 °C	0.19 °C	Fluke 741B Electric Simulation of
Type Pt 385, 100 Ω^{FO}	0 °C to 100 °C	0.2 °C	RTD Output
Jr	100 °C to 300 °C	0.21 °C	PPC-1-TER-04
	300 °C to 400 °C	0.31 °C	ANSI-C39.6-1983
	400 °C to 630 °C	0.45 °C	
	630 °C to 800 °C	0.32 °C	1



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Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 3 916, $100 \Omega^{FO}$	-200 °C to -80 °C	0.34 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPC-1-TER-04 ANSI-C39.6-1983
	-80 °C to 0 °C	0.21 °C	
	0 °C to 100 °C	0.19 °C	
	100 °C to 300 °C	0.15 °C	
	300 °C to 400 °C	0.21 °C	
	400 °C to 630 °C	0.29 °C	
Temperature Calibration, Indication and Control	-200 °C to -80 °C	0.21 °C	
	-80 °C to 0 °C	0.19 °C	
Equipment used with RTD Type Pt 3 926, 100 Ω^{FO}	0 °C to 100 °C	0.15 °C	
Type Pt 3 926, 100 22 °	100 °C to 300 °C	0.16 °C	-
	300 °C to 400 °C	0.17 °C	
	400 °C to 630 °C	0.23 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 200 Ω ^{FO}	-200 °C to -80 °C	0.18 °C	
	-80 °C to 0 °C	0.13 °C	
	0 °C to 100 °C	0.18 °C	
	100 °C to 260 °C	0.21 °C	
	260 °C to 300 °C	0.19 °C	
	300 °C to 400 °C	0.32 °C	
	400 °C to 600 °C	0.26 °C	-
	600 °C to 630 °C	0.22 °C	
Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 500 Ω^{FO}	-200 °C to -80 °C	0.29 °C	
	-80 °C to 0 °C	0.21 °C	
	0 °C to 100 °C	0.19 °C	
	100 °C to 260 °C	0.14 °C	
	300 °C to 400 °C	0.15 °C	
	400 °C to 600 °C	0.31 °C	
	600 °C to 630 °C	0.22 °C	
Temperature Calibration,	-200 °C to -80 °C	0.2 °C	
Indication and Control Equipment used with RTD Type Pt 385, 1 000 Ω^{FO}	-80 °C to 0 °C	0.13 °C	-
	0 °C to 100 °C	0.13 °C	



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Temperature Calibration, Indication and Control Equipment used with RTD Type Pt 385, 1 000 Ω^{FO}	100 °C to 260 °C	0.19 °C	Fluke 5500A and Fluke 741B Electric Simulation of RTD Output PPPC-1-TER-04 ANSI-C39.6-1983
	260 °C to 300 °C	0.14 °C	
	300 °C to 400 °C	0.15 °C	
	400 °C to 600 °C	0.15 °C	
	600 °C to 630 °C	0.32 °C	
Temperature Calibration, Indication and Control Equipment used with of Thermocouple Type E ^{FO}	-250 °C to -100 °C	0.58 °C	Fluke 5500A and Fluke 741B Electric Simulation of Thermocouple Output PPC-1-TER-04 ANSI-C39.6-1983
	-100 °C to -25 °C	0.19 °C	
	-25 °C to 350 °C	0.17 °C	
	350 °C to 650 °C	0.19 °C	
	650 °C to 1 000 °C	0.26 °C	
Temperature Calibration, Indication and Control	-210 °C to -100 °C	0.32 °C	
	-100 °C to -30 °C	0.19 °C	
Equipment used with of Thermocouple Type J ^{FO}	-30 °C to 150 °C	0.17 °C	
	150 °C to 760 °C	0.19 °C	
	760 °C to 1 200 °C	0.28 °C	
Temperature Calibration,	-200 °C to -100 °C	0.39 °C	
Indication and Control	-100 °C to -25 °C	0.22 °C	
Equipment used with of Thermocouple Type K ^{FO}	-30 °C to 120 °C	0.19 °C	
Thermocoupie Type R	120 °C to 1 000 °C	0.31 °C	
	1 000 °C to 1 372 °C	0.47 °C	
Temperature Calibration,	0 °C to 250 °C	0.66 °C	
Indication and Control	250 °C to 400 °C	0.41 °C	-
Equipment used with of Thermocouple Type R ^{FO}	400 °C to 1 000 °C	0.39 °C	
	1 000 °C to 1 767 °C	0.47 °C	
Temperature Calibration,	0 °C to 250 °C	0.55 °C	
Indication and Control	250 °C to 400 °C	0.44 °C	
Equipment used with of Thermocouple Type S ^{FO}	400 °C to 1 000 °C	0.44 °C	
	1 000 °C to 1 767 °C	0.55 °C	
Temperature Calibration, Indication and Control Equipment used with of Thermocouple Type T ^{FO}	-250 °C to -150 °C	0.76 °C	
	-150 °C to 0 °C	0.29 °C	
	0 °C to 120 °C	0.2 °C	
	120 °C to 400 °C	0.18 °C	



Site - Etalons, S.A de C.V

Rio Panuco #3508, Col. Villa Los Pinos Monterrey, Nuevo León, México. C.P. 64770 Contact Name: Roberto Benitez Phone: 818-398-2950

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

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Frequency Equipment to Generate ^{FO}	0.01 Hz to 2 MHz	0.7 % of reading	Oscilloscope ANSI-C39.6
Timers ^{FO}	3 600 s	0.6 s	Chronometer PPC-1-TIE-01 NIST Handbook 105-5
Patient Monitors ⁰ ECG: Heart Rate (Beats per minute)	ECG: 30 bpm to 250 bpm	ECG: 0.7 bpm	Prosim 8, Prosim SPOT Light SpO2 Fluke
Patient Monitors ⁰ Oximetry: Oxygen Saturation (SpO2)	85 % SpO ₂ to 100 % SpO ₂	1.4 % SpO ₂	PPC-1-BIO-2 IEC 62353
Oximeters ⁰ Oximetry: Oxygen Saturation (SpO2)	85 % SpO ₂ to 100 % SpO ₂	1.4 % SpO ₂	Prosim 8, Prosim SPOT Light SpO2 Fluke
Oximeters ^O Pulse: Heart Rate	30 bpm to 250 bpm	0.7 bpm	PPC-1-BIO-3
Electrocardiograph ⁰	30 bpm to 250 bpm	0.7 bpm	Prosim 8 Fluke PPC-1-BIO-1 IEC 62353

- 1. he 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. 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.



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

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

