



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Industries Incymed SAS. de C.V.

***Emiliano Zapata No. 17, Santa Cruz El Porvenir
Ixtacuixtla, Tlaxcala, México C.P. 90120***

*(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, Time and Frequency, Mass, Force and Weighing
Devices, Optical, 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

Initial Accreditation Date:

February 15, 2019

Issue Date:

August 15, 2023

Expiration Date:

August 15, 2025

Accreditation No.:

102856

Certificate No.:

L26-613

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.pjlabs.com*



Certificate of Accreditation: Supplement

Industries Incymed SAS de C.V

Emiliano Zapata No. 17, Santa Cruz El Porvenir

Ixtacuixtla, Tlaxcala, México. C.P. 90120

Contact Name: Filiberto Aguilar Phone: 556-065-2689

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 (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Vernier Dial and Digital Calipers ^{FO}	1 mm to 500 mm	$(8 + 9 \times 10^{-5}L) \mu\text{m}$	Gage Blocks Mitutoyo ASME B89.1.14
Micrometers ^{FO}	1 mm to 500 mm	$(1.21 + 2.9 \times 10^{-4}L) \mu\text{m}$	Gage Blocks Mitutoyo JIS B 7502
Dial and Digital Indicators ^{FO}	0.1 mm to 50 mm	$(0.24 + 1.1 \times 10^{-3}L) \mu\text{m}$	Gage Blocks Mitutoyo ASME B89.1.10M

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
Pressure Gauges, Pressure Transducers ^{FO}	0.1 psi to 9 999.5 psi	1 psi	Pressure Gauge Pattern: Fluke 2700 G-70M Euramet cg-17
	0.001 psi to 14.999 psi	0.011 psi	Pressure Gauge Fluke 750PD4 Euramet cg-17
Vacuum Gauges, Vacuum Transducers ^{FO}	-13.997 psi to -0.001 psi	0.011 psi	Euramet cg-17
Pressure Gauges ^{FO}	0 psi to 500 psi	0.005 8 psi	Fluke 700G07 Euramet cg-17
	-10 inH ₂ O to 10 inH ₂ O	0.000 58 inH ₂ O	Fluke 750P01 Transductor Euramet cg-17
Torque Transducers Clockwise and Counter Clockwise ^{FO}	0.1 N·m to 500 N·m	$(4.24 \times 10^{-4} + 1.66 \times 10^{-3}T) \text{N}\cdot\text{m}$	Dead Weights OIML Class E2, F1 and M1 ASTM E 2624
Safety and Relief Valve ^F	0.1 mPa to 68.95 MPa	6.9 kPa	Pressure Gauge Pattern: Fluke 2700 G-70M CENAM Technical Guide
Air Velocity Anemometers ^{FO}	0.1 mps to 30 mps	0.005 8 mps	Hot Wire Anemometer ASTM D 3796
Flow Devices – Water Flow ^{FO}	1 L/min to 1 000 L/min	0.005 8 L/min	Gravimetric Method CEM-ME-008
	Up to 60 L/min	0.0088 L/min	Ultrasonic Flow Meter Direct Comparison CEM-ME-008
	60 L/min to 100 L/min	0.014 L/min	
	100 L/min to 200 L/min	0.021 L/min	
	200 L/min to 300 L/min	0.011 L/min	



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Flow Devices – Liquid Flow Meter ^{FO}	Up to 3 450 L/s	0.3 % of reading	Ultrasonic Flow Meter Comparison CEM 08
Flow Device Meter – Gases, Steam, Air, Nitrogen, Oxygen, Argon, Gas Natural ^{FO}	Up to 1 226 L/s	0.2 % of reading	Ultrasonic Flow Meter Comparison CEM 09
Micropipettes ^F	10 μ L to 1 000 μ L	$(2.72 \times 10^{-2} + 8.3 \times 10^{-5}V) \mu$ L	Analytical Balance-Metter Toledo At 201 and Ohaus EX24001 for Volumetric Vessels by the Gravimetric Method CENAM Technical Guide
Pipettes ^F	1 mL to 100 mL	$(4.41 \times 10^{-4} + 3.9 \times 10^{-5}V) \text{ mL}$	
Burettes ^F	1 mL to 100 mL	$(4.41 \times 10^{-4} + 3.9 \times 10^{-5}V) \text{ mL}$	
Volumetric Flasks ^F	10 mL to 100 mL	$(4.1 \times 10^{-3} + 2 \times 10^{-5}V) \text{ mL}$	
Test Tubes ^F	1 mL to 150 mL	$(4.28 \times 10^{-3} + 2.4 \times 10^{-5}V) \text{ mL}$	
Glass, Plastic and Metal Containers ^F	200 mL to 20 L	$(1.79 \times 10^{-3} + 5.1 \times 10^{-5}V) \text{ L}$	

Time and Frequency

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
Equipment to Output Frequency ^{FO}	1 Hz to 40 Hz	0.05 % of reading	HP 3458A Multimeter Digital CENAM Technical Guide
	40 Hz to 10 MHz	0.01 % of reading	
Equipment to Measure Frequency ^{FO}	1 Hz to 40 Hz	0.05 % of reading	CENAM Technical Guide
	40 Hz to 50 kHz	0.01 % of reading	
Equipment to Output Frequency ^{FO}	1 Hz to 110 Hz	0.05 Hz	Fluke 754 – Process Calibrator CENAM Technical Guide
	110.1 Hz to 1 100 Hz	0.5 Hz	
	1.101 kHz to 11 kHz	0.005 kHz	
	11.1 kHz to 50 kHz	0.05 kHz	
Equipment to Measure Frequency ^{FO}	0.01 Hz to 10.99 Hz	0.1 Hz	CENAM Technical Guide
	11 Hz to 109.99 Hz	0.1 Hz	
	110 Hz to 1 099.9 Hz	0.1 Hz	
	1.1 kHz to 21.999 kHz	0.002 kHz	
	22 kHz to 50 kHz	0.005 kHz	
Tachometers ^{FO}	0.1 rad/s to 10 370 rad/s	0.036 rad/s	Process Calibrator Fluke 754 CENAM Technical Guide



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Time and Frequency

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Stopwatch and Time Counters ^{FO}	3 600 s	0.003 5 s	Digital Chronometer Traceable - Casio NIST Recommended Practice Guide Special Publication 960-12
	86 400 s	0.003 5 s	
Equipment to Measure Frequency ^{FO}	1 Hz to 40 Hz	0.05 % of reading	HP 3458A Multimeter Digital CENAM Technical Guide
	40 Hz to 10 MHz	0.01 % of reading	

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
Mass Weight F1, F2, M1, M2, M3 ^F	1 mg	0.002 mg	Mass Comparator OIML R 111 Class E2 Mass Weights
	2 mg	0.002 mg	
	5 mg	0.002 mg	
	10 mg	0.002 7 mg	
	20 mg	0.003 3 mg	
	50 mg	0.004 mg	
	100 mg	0.005 3 mg	
Mass Weight F1, F2, M1, M2, M3 ^F	200 mg	0.006 7 mg	Mass Comparator OIML R 111 Class E2 Mass Weights
	500 mg	0.008 3 mg	
	1 g	0.01 mg	
	2 g	0.013 mg	
	5 g	0.017 mg	
	10 g	0.02 mg	
	20 g	0.027 mg	
	50 g	0.033 mg	
	100 g	0.053 mg	
	200 g	0.1 mg	
	500 g	0.27 mg	
	1 kg	0.53 mg	
Mass Weight F2, M1, M2, M3 ^{FO}	2 kg	3.3 mg	Mass Comparator OIML R 111 Class F1 Mass Weights
	5 kg	8.3 mg	
	10 kg	0.17 g	
	20 kg	0.33 g	



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Mass, Force and Weighing Devices

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Mass Weight Class M2, M3 ^{FO}	50 kg	0.67 g	Mass Comparator Class M1 Mass Weights OIML R 111
Non-Automatic Weighing Devices ^{FO}	1 mg to 20 mg (Res.= 0.01 mg)	$(9.49 \times 10^{-3} + 7 \times 10^{-6} \text{Wt})$ mg	Class E2 Weights, OIML R 76-1
	1 g to 220 g (Res.= 0.1 mg)	$(1.38 \times 10^{-4} + 2 \times 10^{-6} \text{Wt})$ mg	
Non-Automatic Weighing Devices ^{FO}	100 g to 10 000 g (Res.= 0.01 g)	$(1.1 \times 10^{-1} + 2 \times 10^{-6} \text{Wt})$ g	Class E2 Weights Class F1 Weights OIML R 76-1
	500 g to 20 000 g (Res.= 0.1 g)	$(1.39 \times 10^{-1} + 3 \times 10^{-6} \text{Wt})$ g	
Non-Automatic Weighing Devices ^{FO}	20 kg to 500 kg (Res.= 0.1 kg)	$(1.3 \times 10^{-1} + 2.1 \times 10^{-5} \text{Wt})$ kg	Class M1 Weights OIML R 76-1
	500 kg to 2 500 kg (Res.= 1 kg)	$(4.25 \times 10^{-1} + 9.1 \times 10^{-4} \text{Wt})$ kg	
Force – Compression and Tension Gauges ^{FO}	1 000 kgf to 4 500 kgf (Res.= 0.1 kgf)	0.1 % of reading	Load Cell NTEP MS-1 NMX-CH-7500-1-IMNC
	50 kgf to 500 kgf (Res.= 0.1 kgf)	$(1 \times 10^{-6} + 6.6 \times 10^{-5} \text{Wt})$ kgf	Class M1 Weights NMX-CH-7500-1-IMNC
	1 kgf to 20 kgf (Res.= 0.1 kgf)	$(1 \times 10^{-3} + 6 \times 10^{-5} \text{Wt})$ kgf	Class F1 Weights NMX-CH-7500-1-IMNC
	0.1 kgf to 1 kgf (Res.= 0.01 kgf)	$(1 \times 10^{-6} + 5.90 \times 10^{-5} \text{Wt})$ kgf	Class E2 Weights NMX-CH-7500-1-IMNC
Density Immersion Equipment ^{FO}	0.6 g/cm ³ to 2 g/cm ³	0.000 12 g/cm ³	Balance Transcell CENAM Technical Guide

Optical

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
Spectrophotometers UV-Visible Wavelengths (325 nm to 900 nm) Absorbance ^{FO}	0.05 A to 0.45 A	0.004 6 A	CRMs – Ricca Chemical Cobalt Chloride, Hexahydrate Number 2208 CENAM Technical Guide
Spectrophotometers – UV – Visible Wavelength Accuracy ^{FO}	241 nm to 640.6 nm	0.09 nm	Holmio Oxide Sealed in a Quartz Cell CENAM Technical Guide
Spectrophotometers – UV – Visible Photometric Accuracy ^{FO}	0.24 absorbance	2 % of reading	Potassium Dichromate for absorbance RM-021460 CENAM Technical Guide
	0.95 Absorbance	2 % of reading	
	2 absorbance	2 % of reading	



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Light Meters ^{FO}	1 lux to 4 000 lux	3 % of reading	Extech / Luxmeter Comparison PCOP-01-12
Irradiance Ultraviolet Meter ^{FO}	5 mW/cm ² W/cm ² to 100 mW/cm ²	1.2 % reading	Comparison Method Photometer / Radiometer PCOP-03-12
Illuminance-Light Visible Meter ^{FO}	1 lux to 5 300 lux	1.2 % reading	Comparison Method Photometer / Radiometer PCOP-01-12
Pyranometer ^F ISO 9060:2018 Class A, B and C	700 W/m ² to 1 400 W/m ²	0.59 % of reading	Pyrheliometer and Pyranometer Calibration Operation Instruction (LM-10 ^a ISO9847 Standard Pyranometer (MS-80A) Digital Multimeter (3458A), Calibrator Process Fluke 754

Thermodynamic

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Termohygrometers – Humidity Only ^{FO}	10 % RH to 90 % RH	1 % RH	Barometer Digital Madgetech RFRPH Temp 2000A CENAM Technical Guide
Termohygrometers Temperature Only ^{FO}	5°C to 50 °C	0.025 °C	Indicator of Temperature Fluke 1524 & RTD Industrial Fluke 5627A CENAM Technical Guide
Infrared Temperature Measuring Devices ^{FO}	25 °C to 200 °C	0.5 °C	Temperature Indicator Fluke 1524 RTD Industrial Fluke 5627A and Blackbody CENAM Technical Guide
	200 °C to 420 °C	0.6 °C	
Liquid in Glass Thermometer ^{FO}	-15 °C to 420 °C	0.4 °C	Temperature Indicator Fluke 1524 RTD Industrial Fluke 5627A and Liquid Bath. OIML R 133
Bimetallic Thermometer ^{FO}	0 °C to 420 °C	0.5 °C	Temperature Indicator Fluke 1524 RTD Industrial Fluke 5627A,
Temperature Measurement RTD Pt 385, 100 Ω ^{FO}	-15 °C to 420 °C	0.031 °C	Liquid Bath and Dry Bath NMX-CH-70-SCFI
Temperature Measurement RTD Pt 385, 200 Ω ^{FO}	-15 °C to 420 °C	0.031 °C	



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Thermodynamic

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Temperature Measurement RTD Pt 385, 500 Ω^{FO}	-15 °C to 420 °C	0.031 °C	Temperature Indicator Fluke 1524 RTD Industrial Fluke 5627A, Liquid Bath and Dry Bath ASTM E1137/E 1137M-04
Temperature Measurement RTD Pt 385, 1 000 Ω^{FO}	-15 °C to 420 °C	0.031 °C	
Temperature Measurement RTD without Indicator ^{FO}	-15 °C to 420 °C	0.031 °C	
Temperature Measurement Thermocouples Type J ^{FO}	-15 °C to 420 °C	0.23 °C	Temperature Indicator Fluke 1524, RTD Industrial Fluke 5627A, Liquid Bath and Dry Bath NMX-CH-70-SCFI
Temperature Measurement Thermocouples Type K ^{FO}	-15 °C to 420 °C	0.24 °C	
Temperature measurement Thermocouples Type T ^{FO}	-15 °C to 420 °C	0.25 °C	
Water Baths, Temperature Control ^{FO}	0 °C to 420 °C	0.5 °C	Temperature Indicator Fluke 1524 and RTD Industrial Fluke 5627A NMX-CH-70-SCFI
	0 °C to 420 °C	0.23 °C	Temperature Indicator Fluke 1524 and Thermocouple Type J NMX-CH-70-SCFI
	0 °C to 420 °C	0.24 °C	Temperature Indicator Fluke 1524 and Thermocouple Type K NMX-CH-70-SCFI
Water Baths, Temperature Control ^{FO}	0 °C to 420 °C	0.25 °C	Temperature Indicator Fluke 1524 and Thermocouple Type T NMX-CH-70-SCFI
Sensors of Furnaces ^O	50 °C to 1 000 °C	0.23 °C	Temperature Indicator Fluke 1524 and Thermocouple Type J OIML R 133
	50 °C to 1 000 °C	0.24 °C	Temperature Indicator Fluke 1524 and Thermocouple Type K NMX-CH-70-SCFI
	-210 °C to 1 200 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type J NMX-CH-70-SCFI
	-200 °C to 1 000 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type K NMX-CH-70-SCFI
	-200 °C to 400 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type T NMX-CH-70-SCFI



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Liquid in Glass Thermometer ^{FO}	-15 °C to 420 °C	0.23 °C	Temperature Indicator Fluke 1524 and Thermocouple Type J OIML R 133
	-15 °C to 420 °C	0.24 °C	Temperature Indicator Fluke 754 and Thermocouple Type K NMX-CH-70-SCFI
	-15 °C to 400 °C	0.25 °C	Temperature Indicator Fluke 1524 and Thermocouple Type T OIML R 133
	-15 °C to 420 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type J OIML R 133
	-15 °C to 420 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type K OIML R 133
Bimetallic Thermometer ^{FO}	0 °C to 420 °C	0.23 °C	Temperature Indicator Fluke 1524 and Thermocouple Type J NMX-CH-70-SCFI
	0 °C to 420 °C	0.24 °C	Temperature Indicator Fluke 1524 and Thermocouple Type K NMX-CH-70-SCFI
	0 °C to 420 °C	0.25 °C	Temperature Indicator Fluke 1524 and Thermocouple Type T NMX-CH-70-SCFI
Temperature Measurement of Thermocouples without Indicator ^{FO}	-15 °C to 420 °C	0.031 °C	Temperature Indicator Fluke 1524, RTD Industrial Fluke 5627A, Multimeter Digital HP 3458A, Liquid Bath and Dry Bath Euramet cg-8
Bimetallic Thermometer, Water Baths ^{FO}	0 °C to 420 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type J NMX-CH-70-SCFI
	0 °C to 420 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type K NMX-CH-70-SCFI
	0 °C to 400 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type T NMX-CH-70-SCFI



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Temperature Control ^O	-210 °C to 1 000 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type J NMX-CH-70-SCFI
	-200 °C to 1 370 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type K NMX-CH-70-SCFI
	-200 °C to 400 °C	0.3 °C	Temperature Indicator Fluke 754 and Thermocouple Type T NMX-CH-70-SCFI
Environmental Temperature ^F	5 °C to 50 °C	0.33 °C	Barometer Digital Madgetech RFPRHTemp2000A CENAM Technical Guide

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 Meter ^{FO}	4 pH	0.023 pH	CRMs-pH Buffer Solution ASTM E70
	7 pH	0.023 pH	
	10 pH	0.023 pH	
Conductivity Meters ^{FO}	84 μ S/cm	0.58 μ S/cm	CRMs - Conductivity Standard Solutions CENAM Technical Guide
	1 413 μ S/cm	5.8 μ S/cm	
	12 880 μ S/cm	29 μ S/cm	
Refractometer ^{FO}	1.422 5 nD / 50.455 °Brix	0.000 1 nD	CRMs- Refractometer Standard Solutions Distillation Water OIML R 142
	1.546 3 nD / 100.59 °Brix	0.000 1 nD	
Viscosity Dynamic ^{FO} Fixed Point	480 cP	0.3 mPa's	CRMs- Cannon Certified Viscosity Reference Standard NMX-U-038-SCFI
	960 cP	0.4 mPa's	
Kinematic Viscosity ^{FO} Fixed Point @ 20 °C	321.1 mm ² /s	0.26 % of reading	CRMs- Cannon Certified Viscosity N100-Reference Standard
Kinematic Viscosity ^{FO} Fixed Point @ 25 °C	230.4 mm ² /s	0.26 % of reading	
Kinematic Viscosity ^{FO} Fixed Point @ 40 °C	96.28 mm ² /s	0.26 % of reading	
Kinematic Viscosity ^{FO} Fixed Point @ 50 °C	59.03 mm ² /s	0.26 % of reading	



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Kinematic Viscosity ^{FO} Fixed Point @ 20 °C	103.8 mm ² /s	0.22 % of reading	CRMs- Cannon Certified Viscosity
Kinematic Viscosity ^{FO} Fixed Point @ 25 °C	94 mm ² /s	0.22 % of reading	RT100-Reference Standard
Kinematic Viscosity ^{FO} Fixed Point @ 40 °C	71.55 mm ² /s	0.22 % of reading	
Kinematic Viscosity ^{FO} Fixed Point @ 20 °C	566.3 mm ² /s	0.29 % of reading	
Kinematic Viscosity ^{FO} Fixed Point @ 25 °C	510.2 mm ² /s	0.29 % of reading	RT-500-Reference Standard
Kinematic Viscosity ^{FO} Fixed Point @ 40 °C	385.3 mm ² /s	0.29 % of reading	
Kinematic Viscosity ^{FO} Fixed Point @ 20 °C	1 120 mm ² /s	0.38 % of reading	
Kinematic Viscosity ^{FO} Fixed Point @ 25 °C	1 012 mm ² /s	0.38 % of reading	RT-1000-Reference Standard
Kinematic Viscosity ^{FO} Fixed Point @ 40 °C	764.4 mm ² /s	0.38 % of reading	

Electrical

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Equipment to Output DC Voltage ^{FO}	0.1 mV to 100 mV	9 μ V/V + 3 μ V	Digital Multimeter HP 3458A CEM EL-001
	100 mV to 1 V	8 μ V/V + 0.3 μ V	
	1 V to 10 V	8 μ V/V + 0.05 μ V	
	10 V to 100 V	10 μ V/V + 0.3 μ V	
	100 V to 1 000 V	10 μ V/V + 0.1 μ V	
Equipment to Output DC Voltage ^{FO}	0.1 mV to 100 mV	0.02 % of reading + 0.005 mV	Process Calibrator Fluke 754 CEM EL-001
	100 mV to 3 V	0.02 % of reading + 0.000 05 V	
	3 V to 30 V	0.02 % of reading + 0.000 5 V	
	30 V to 300 V	0.05 % of reading + 0.05 V	
Equipment to Output AC Voltage at the listed frequencies 50 Hz to 1 kHz ^{FO}	10 mV to 100 mV	0.007 % of reading + 0.004 V	Digital Multimeter HP 3458A CEM EL-001
	100 mV to 1 V	0.007 % of reading + 0.004 V	
	1 V to 10 V	0.007 % of reading + 0.004 V	



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Industries Incymed SAS de C.V

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Ixtacuixtla, Tlaxcala, México. C.P. 90120

Contact Name: Filiberto Aguilar Phone: 556-065-2689

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

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
Equipment to Output AC Voltage at the listed frequencies 50 Hz to 1 kHz ^{F0}	10 V to 100 V	0.02 % of reading + 0.004 V	Digital Multimeter HP 3458A CEM EL-001
	100 V to 700 V	0.04 % of reading + 0.004 V	
Equipment to Output DC Current ^{F0}	1 η A to 100 η A	30 μ A/A + 400 μ A	
	0.1 μ A to 1 μ A	20 μ A/A + 40 μ A	
	1 μ A to 10 μ A	20 μ A/A + 10 μ A	
	10 μ A to 100 μ A	20 μ A/A + 8 μ A	
	0.1 mA to 1 mA	20 μ A/A + 5 μ A	
	1 mA to 10 mA	20 μ A/A + 5 μ A	
	10 mA to 100 A	35 μ A/A + 5 μ A	
	100 mA to 1 A	110 μ A/A + 10 μ A	
	1 mA to 30 mA	0.01 % of reading + 5 μ A	Process Calibrator Fluke 754 CEM EL-001
	30 mA to 100 mA	0.01 % of reading + 20 μ A	
Equipment to Output AC Current at the listed frequencies 50 Hz to 1 kHz ^{F0}	1 μ A to 100 μ A	0.06 μ A/A + 0.03 μ A	Digital Multimeter HP 3458A CEM EL-001
	100 μ A to 1 mA	0.06 μ A/A + 0.02 μ A	
	1 mA to 10 mA	0.06 μ A/A + 0.02 μ A	
	10 mA to 100 mA	0.06 μ A/A + 0.02 μ A	
	100 mA to 1 A	0.08 μ A/A + 0.02 μ A	
Equipment to Output Resistance ^{F0}	0.1 Ω to 10 Ω	0.05 % of reading + 0.05 Ω	Process Calibrator Fluke 754 CEM EL-001
	10 Ω to 100 Ω	0.05 % of reading + 0.05 Ω	
	100 Ω to 1 k Ω	0.05 % of reading + 0.000 5 Ω	
	1 k Ω to 10 k Ω	0.1 % of reading + 0.01 Ω	
	0.1 Ω to 10 Ω	15 $\mu\Omega/\Omega$ + 5 $\mu\Omega$	Digital Multimeter HP 3458A CEM EL-001
	10 Ω to 100 Ω	12 $\mu\Omega/\Omega$ + 5 $\mu\Omega$	
	100 Ω to 1 k Ω	10 $\mu\Omega/\Omega$ + 0.5 $\mu\Omega$	
	1 k Ω to 10 k Ω	10 $\mu\Omega/\Omega$ + 0.5 $\mu\Omega$	
	10 k Ω to 100 k Ω	10 $\mu\Omega/\Omega$ + 0.5 $\mu\Omega$	
	100 k Ω to 1 M Ω	15 $\mu\Omega/\Omega$ + 2 $\mu\Omega$	
1 M Ω to 10 M Ω	50 $\mu\Omega/\Omega$ + 10 $\mu\Omega$		
10 M Ω to 100 M Ω	500 $\mu\Omega/\Omega$ + 10 $\mu\Omega$		
100 M Ω to 1 G Ω	0.5 % of reading + 10 $\mu\Omega$		



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Equipment to Measure DC Voltage ^{F0}	0.1 mV to 19.999 9 mV	0.004 % of output + 0.001 % of range + 5 μ V	Digital Multimeter Fluke 5101B CEM EL-001	
	20 mV to 199.999 mV	0.004 % of output + 0.001 % of range + 5 μ V		
	0.2 mV to 1.999 99 V	0.004 % of output + 0.001 % of range + 5 μ V		
	2 V to 19.999 9 V	0.004 % of output + 0.001 % of range + 5 μ V		
	20 V to 199.999 V	0.004 % of output + 0.001 % of range + 5 μ V		
	200 V to 1 000 V	0.004 % of output + 0.001 % of range + 5 μ V		
Equipment to Measure DC Voltage ^{F0}	1 mV to 100 mV	0.01 % of output + 0.005 mV	Process Calibrator Fluke 754 CEM EL-001	
	100 mV to 1 V	0.01 % of output + 0.000 05 V		
	1 V to 15 V	0.01 % of output + 0.000 5 V		
	Equipment to Measure DC Voltage ^{F0}	0.1 mV to 100 mV	9 μ V/V + 3 μ V	Digital Multimeter HP 3458A CEM EL-001
		100 mV to 1 V	8 μ V/V + 0.3 μ V	
		1 V to 10 V	8 μ V/V + 0.05 μ V	
		10 V to 100 V	10 μ V/V + 0.3 μ V	
Equipment to Measure AC Voltage At the listed frequencies 50 Hz to 1 kHz ^{F0}	100 V to 1 000 V	10 μ V/V + 0.1 μ V	Process Calibrator Fluke 5101B CEM EL-001	
	1 mV to 19.999 9 mV	0.035 % of output + 0.005 % of range + 50 μ V		
	20 mV to 199.999 mV	0.035 % of output + 0.005% of range + 50 μ V		
	0.2 V to 1.999 99 V	0.035 % of output + 0.005 % of range + 50 μ V		
	2 V to 19.999 9 V	0.035 % of output + 0.005 % of range + 50 μ V		
	20 V to 199.999 V	0.035 % of output + 0.005 % of range + 50 μ V		
Equipment to Measure AC Voltage At the listed frequencies 50 Hz to 1 kHz ^{F0}	200 V to 1 100 V	0.035 % of output + 0.005 % of range + 50 μ V	Digital Multimeter HP 3458A CEM EL-001	
	10 mV to 100 mV	0.007 % of reading + 0.004 V		
	100 mV to 1 V	0.007 % of reading + 0.004 V		
Equipment to Measure AC Voltage At the listed frequencies 50 Hz to 1 kHz ^{F0}	1 V to 10 V	0.007 % of reading + 0.004 V	Digital Multimeter HP 3458A CEM EL-001	



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Equipment to Measure AC Voltage At the listed frequencies 50 Hz to 1 kHz ^{F0}	10 V to 100 V	0.02 % of reading + 0.004 V	Digital Multimeter HP 3458A CEM EL-001
	100 V to 700 V	0.04 % of reading + 0.004 V	
Equipment to Measure DC Current At the listed frequencies 50 Hz to 1 kHz ^{F0}	10 μ A to 199.999 μ A	0.015 % of output + 0.002 % of range + 0.02 μ A	Process Calibrator Fluke 5101B CEM EL-001
	0.2 mA to 1.999 99 mA	0.015 % of output + 0.002 % of range + 0.02 μ A	
	2 mA to 19.999 9 mA	0.015 % of output + 0.002 % of range + 0.02 μ A	
	20 mA to 199.999 mA	0.015 % of output + 0.002 % of range + 0.02 μ A	
	0.2 A to 1 A	0.015 % of output + 0.002 % of range + 0.02 μ A	
	0.2 A to 32 A	0.01 % of reading	Process Calibrator Fluke 5101B and Resistor SRR Series CEM EL-001
	1 η A to 100 η A	30 μ A/A + 400 μ A	Digital multimeter HP 3458A CEM EL-001
	0.1 μ A to 1 μ A	20 μ A/A + 40 μ A	
	1 μ A to 10 μ A	20 μ A/A + 10 μ A	
	10 μ A to 100 μ A	20 μ A/A + 8 μ A	
	0.1 mA to 1 mA	20 μ A/A + 5 μ A	
	1 mA to 10 mA	20 μ A/A + 5 μ A	
	10 mA to 100 mA	35 μ A/A + 5 μ A	
	100 mA to 1 A	110 μ A/A + 10 μ A	
	0.1 mA to 22 mA	0.01 % of output + 3 μ A	Process Calibrator Fluke 754 CEM EL-001
Equipment to Measure AC Current At the listed frequencies 50 Hz to 1 kHz ^{F0}	10 μ A to 199.999 μ A	0.05 % of output + 0.005% of range + 0.02 μ A	Process Calibrator Fluke 5101B CEM EL-001
	0.2 mA to 1.999 99 mA	0.05 % of output + 0.005% of range + 0.02 μ A	
	2 mA to 19.999 9 mA	0.05 % of output + 0.005 % of range + 0.02 μ A	
	20 mA to 199.999 mA	0.05 % of output + 0.005 % of range + 0.02 μ A	



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Equipment to Measure AC Current At the listed frequencies 50 Hz to 1 kHz ^{FO}	0.2 A to 1 A	0.05 % of output + 0.005 % of range + 0.02 μ A	Process Calibrator Fluke 5101B CEM EL-001
	0.2 A to 32 A	0.01 % of reading	Process Calibrator Fluke 5101B and Resistor SRR Series CEM EL-001
	1 μ A to 100 μ A	0.06 μ A/A + 0.03 μ A	Digital Multimeter HP 3458A CEM EL-001
	100 μ A to 1 mA	0.06 μ A/A + 0.02 μ A	
	1 mA to 10 mA	0.06 μ A/A + 0.02 μ A	
	10 mA to 100 mA	0.06 μ A/A + 0.02 μ A	
	100 mA to 1 A	0.08 μ A/A + 0.02 μ A	
Equipment to Measure Resistance ^{FO}	1 Ω	0.015 % of output	Process calibrator Fluke 5101B CEM EL-001
	10 Ω	0.01 % of output	
	100 Ω	0.003 % of output	
	1 k Ω	0.003 % of output	
	10 k Ω	0.003 % of output	
	100 k Ω	0.003 % of output	
	1 M Ω	0.01 % of output	
	10 M Ω	0.03 % of output	
	1 Ω to 10 Ω	1 % of output + 10 m Ω	Resistance Box AEMC BR07 CEM EL-001
	10 Ω to 100 Ω	1 % of output + 10 m Ω	
	100 Ω to 1 k Ω	1 % of output + 10 m Ω	
	1 k Ω to 10 k Ω	1 % of output + 10 m Ω	
	10 k Ω to 100 k Ω	1 % of output + 10 m Ω	
	100 k Ω to 1 M Ω	1 % of output + 10 m Ω	
	1 M Ω to 10 M Ω	1 % of output + 10 m Ω	
	0.1 Ω to 10 Ω	0.01 % of output + 0.01 Ω	Process Calibrator Fluke 754 CEM EL-001
	10 Ω to 100 Ω	0.01 % of output + 0.02 Ω	
	0.1 k Ω to 1 k Ω	0.02 % of output + 0.000 2 k Ω	
	1 k Ω to 10 k Ω	0.02 % of output + 0.003 k Ω	
	0.1 Ω to 10 Ω	15 $\mu\Omega/\Omega$ + 5 $\mu\Omega$	Digital Multimeter HP 3458A CEM EL-001
10 Ω to 100 Ω	12 $\mu\Omega/\Omega$ + 5 $\mu\Omega$		
100 Ω to 1 k Ω	10 $\mu\Omega/\Omega$ + 0.5 $\mu\Omega$		



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Equipment to Measure Resistance ^{FO}	1 k Ω to 10 k Ω	10 $\mu\Omega/\Omega$ + 0.5 $\mu\Omega$	Digital Multimeter HP 3458A CEM EL-001
	10 k Ω to 100 k Ω	10 $\mu\Omega/\Omega$ + 0.5 $\mu\Omega$	
	100 k Ω to 1 M Ω	15 $\mu\Omega/\Omega$ + 2 $\mu\Omega$	
	1 M Ω to 10 M Ω	50 $\mu\Omega/\Omega$ + 10 $\mu\Omega$	
	10 M Ω to 100 M Ω	500 $\mu\Omega/\Omega$ + 10 $\mu\Omega$	
	100 M Ω to 1 G Ω	0.5 % of reading + 10 $\mu\Omega$	
Temperature Calibration Simulation and Control Equipment used with RTD Pt 385, 100 Ω ^{FO}	-200 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$	0.07 $^{\circ}\text{C}$	Fluke 754 Electrical Simulation of RTD Output Euramet-cg-11
	100 $^{\circ}\text{C}$ to 800 $^{\circ}\text{C}$	0.02 % of reading + 0.05 $^{\circ}\text{C}$	
Temperature Calibration, Indication and Control Equipment used with RTD Pt 3926, 100 Ω ^{FO}	-200 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$	0.08 $^{\circ}\text{C}$	
	100 $^{\circ}\text{C}$ to 630 $^{\circ}\text{C}$	0.02 % of reading + 0.06 $^{\circ}\text{C}$	
Temperature Calibration Indication and Control Equipment used with Thermocouple Type J ^{FO}	-200 $^{\circ}\text{C}$ to -100 $^{\circ}\text{C}$	0.6 $^{\circ}\text{C}$	Fluke 754 Electrical Simulation of Thermocouple Output Euramet-cg-11
	-100 $^{\circ}\text{C}$ to 800 $^{\circ}\text{C}$	0.3 $^{\circ}\text{C}$	
	800 $^{\circ}\text{C}$ to 1 200 $^{\circ}\text{C}$	0.5 $^{\circ}\text{C}$	
Temperature Calibration Indication and Control Equipment used with Thermocouple Type K ^{FO}	-210 $^{\circ}\text{C}$ to -100 $^{\circ}\text{C}$	0.7 $^{\circ}\text{C}$	
	-100 $^{\circ}\text{C}$ to 400 $^{\circ}\text{C}$	0.3 $^{\circ}\text{C}$	
	400 $^{\circ}\text{C}$ to 1 200 $^{\circ}\text{C}$	0.5 $^{\circ}\text{C}$	
	1 200 $^{\circ}\text{C}$ to 1 372 $^{\circ}\text{C}$	0.7 $^{\circ}\text{C}$	
Temperature Calibration Indication and Control Equipment used with Thermocouple Type T ^{FO}	-250 $^{\circ}\text{C}$ to -200 $^{\circ}\text{C}$	1.7 $^{\circ}\text{C}$	
	-200 $^{\circ}\text{C}$ to 0 $^{\circ}\text{C}$	0.6 $^{\circ}\text{C}$	
	0 $^{\circ}\text{C}$ to 400 $^{\circ}\text{C}$	0.3 $^{\circ}\text{C}$	
Temperature Calibration Indication and Control Equipment used with Thermocouple Type R ^{FO}	-20 $^{\circ}\text{C}$ to 0 $^{\circ}\text{C}$	2.3 $^{\circ}\text{C}$	
	0 $^{\circ}\text{C}$ to 100 $^{\circ}\text{C}$	1.5 $^{\circ}\text{C}$	
	100 $^{\circ}\text{C}$ to 1 767 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	
Temperature Calibration Indication and Control Equipment used with Thermocouple Type S ^{FO}	-20 $^{\circ}\text{C}$ to 0 $^{\circ}\text{C}$	1.2 $^{\circ}\text{C}$	
	0 $^{\circ}\text{C}$ to 200 $^{\circ}\text{C}$	1.1 $^{\circ}\text{C}$	
	200 $^{\circ}\text{C}$ to 1 400 $^{\circ}\text{C}$	0.9 $^{\circ}\text{C}$	
	1 400 $^{\circ}\text{C}$ to 1 767 $^{\circ}\text{C}$	1 $^{\circ}\text{C}$	
pH Electrical Simulation - Measure ^{FO}	0.01 pH to 14 pH	0.003 pH	Process Calibrator Fluke 754 NMX-CH-131/2-SCFI



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pH Electrical Simulation - Measure ^{FO}	Up to 14 pH	0.001 pH	Process Calibrator Fluke 5101B NMX-CH-131/2-SCFI
Conductivity Electrical Simulation – Measure ^{FO}	100 μ S/cm to 1 000 mS/cm	0.04 μ S/cm	Process Calibrator Fluke 754 NMX-CH-131/2-SCFI
	84 μ S/cm	4.2 μ S/cm	
Equipment to Measure Power References At the listed frequencies			Agilent N5181A Signal Generator Internal Procedure PCE-03-3
100 kHz to 600 kHz (50 Ω)	13 dB to -19.99 dB	0.058 dB	
600 kHz to 1 MHz (50 Ω)	13 dB to -19.99 dB	0.056 dB	
1 MHz to 3 GHz (50 Ω)	13 dB to -19.99 dB	0.057 dB	
Equipment to Measure Power References At the listed frequencies			
100 kHz to 600 kHz (50 Ω)	-20 dB to -110 dB	0.057 dB	
600 kHz to 1 MHz (50 Ω)	-20 dB to -110 dB	0.058 dB	
1 MHz to 3 GHz (50 Ω)	-20 dB to -110 dB	0.058 dB	
Equipment to Output Power Accuracy At the listed frequency 100 kHz to 3 GHz (50 Ω)	20 dB to 9.99 dB	1.2 dB	Spectrum Analyzer / Rohde & Schwars Internal Procedure PCE-03-3
	10 dB to -9.99 dB	1.5 dB	
	-10 dB to -19.99 dB	1.5 dB	
	-20 dB to -49.99 dB	1.8 dB	
	-50 dB to -79.99 dB	2.1 dB	
	-80 dB to -99.99 dB	2.3 dB	
Equipment to Measure Capacitance ^{FO}	100 pF to 1 000 pF	3 % of reading	Decade of Capacitance Internal Procedure PCE-03-3
	1 000 pF to 9 000 pF	3 % of reading	
	10 000 pF to 90 000 pF	3 % of reading	

- 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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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 O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
5. 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.
6. 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.
7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
8. The term V represents Volume in mililiters or liters as appropriate to the uncertainty statement
9. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.