



# CERTIFICATE OF ACCREDITATION

**The ANSI National Accreditation Board**

Hereby attests that

**PROMOCION MEDICA S.A.**

**Costa del Este, Parque Industrial, Calle 2da Edificio Promed  
Panama**

Fulfills the requirements of

**ISO/IEC 17025:2017**

In the field of

**CALIBRATION**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

Jason Stine, Vice President

Expiry Date: 25 February 2026  
Certificate Number: AC-2854



This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### PROMOCION MEDICA S.A.

Costa del Este, Parque Industrial, Calle 2da Edificio Promed  
Panama  
Epifanía Riley de Rotar  
Tel: (+507) 303-3115 E-mail: ederotar@promed-sa.com

### CALIBRATION

Valid to: **February 25, 2026**

Certificate Number: **AC-2854**

#### Acoustics and Vibration

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Audiometry Equipment (Audiometers, Optoacoustics Emissions equipment, Impedance meters, sound cameras)	(75 to 106) dB (10 Hz to 20 kHz)	0.46 dB	ANSI/ASA S3.6

#### Chemical Quantities

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Potential of Hydrogen-pH <sup>1,3</sup>	4 pH 7 pH 10 pH	0.014 pH 0.015 pH 0.015 pH	Certified Reference Materials; Comparison Method
Conductivity Meters <sup>1,3</sup>	5 µS/cm 100 µS/cm 1 000 µS/cm 1 413 µS/cm 100 mS/cm	0.62 µS/cm 2.1 µS/cm 4.7 µS/cm 4.7 µS/cm 0.37 mS/cm	Certified Reference Materials; Comparison Method

**Electrical – DC/Low Frequency**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Energy/Defibrillator <sup>1</sup>	(10 to 100) J (100 to 200) J (200 to 360) J	0.1 % of reading + 0.6 J 1.4 J 1.7 J	Fluke Impulse 6000DP Defibrillator Analyzer
Electrical Simulation of pH Meters <sup>1</sup>	(-2 000 to 2 000) mV	0.1 mV	THERMO ELECTRIC ISOCAL 9000

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pressure/ Blood Pressure Cuff <sup>1</sup>	(60 to 300) mmHg	0.81 mmHg	DRUCK DPIN610 / GE 2200-A145, Pressure Module 2200-A145
Analytical Balance <sup>1</sup> Resolution: $\geq 0.001$ mg $\geq 0.001$ mg $\geq 0.001$ mg $\geq 0.01$ mg	(0 to 100) mg (0 to 22) g (0 to 320) g (0 to 520) g	0.002 mg 0.02 mg 0.083 mg 0.051 mg	Class Weights Mass – OIML Class E2 and F1 for Balance Resolution $\geq 0,1$ mg; Comparison Method
Balances / Weighing Instruments <sup>1</sup> Resolution: $\geq 1$ mg $\geq 5$ mg $\geq 0.01$ g $\geq 0.01$ g $\geq 0.1$ g	(0 to 610) g (0 to 64 100) g (0 to 4 200) g (0 to 10 200) g (0 to 32 200) g	0.021 g 0.011 g 0.019 g 0.13 g 0.26 g	Class Weights Mass – OIML Class E2, F1, M1; Comparison Method
Balances / Scales Floor Scale, Weighing Instruments <sup>1</sup> Resolution: $\geq 0.01$ kg $\geq 0.01$ kg $\geq 0.02$ kg $\geq 0.05$ kg $\geq 0.05$ kg $\geq 0.2$ kg $\geq 0.5$ kg	(0 to 150) kg (0 to 300) kg (0 to 600) kg (0 to 500) kg (0 to 1 000) kg (0 to 2 000) kg (0 to 3 000) kg	0.02 kg 0.035 kg 0.06 kg 0.045 kg 0.12 kg 0.47 kg 0.5 kg	Class Weights Mass – OIML Class F1, F2, M1, M2; Comparison Method

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Mass: OIML Classes E2, F1, F2, M1, M2 & M3	1 mg	0.002 mg	Weight Set Class E1, E2 Mass Comparators: Mettler Toledo Model XPE56C Mettler Toledo Model XPE505C Mettler Toledo Model XPR2004SC
	2 mg	0.002 mg	
	5 mg	0.002 mg	
	10 mg	0.002 6 mg	
	20 mg	0.003 3 mg	
	50 mg	0.004 mg	
	100 mg	0.005 3 mg	
	200 mg	0.006 7 mg	
	500 mg	0.008 3 mg	
	1 g	0.01 mg	
	2 g	0.013 mg	
	5 g	0.016 mg	
	10 g	0.02 mg	
	20 g	0.026 mg	
	50 g	0.033 mg	
	100 g	0.053 mg	
200 g	0.1 mg		
500 g	0.26 mg		
Mass: OIML Classes E2, F1, F2, M1, M2 & M3	1 kg	0.53 mg	Weight Set Class E1, E2 Mass Comparators: Mettler Toledo XPR10003SC Mettler Toledo XPR64003 LD5C
	2 kg	1 mg	
	5 kg	2.7 mg	
	10 kg	5.3 mg	
	20 kg	10 mg	
	50 kg	27 mg	
Piston Volume Devices <sup>1</sup>	1 µL	5 % of indicated volume	Gravimetric Calibration Referenced to Mass Balances: Mettler Toledo XP26PC -Mettler Toledo SAG105 -Mettler Toledo MCP105 (Movil Balance) ISO 8655 Family
	1.25 µL	2 % of indicated volume	
	2 µL	2 % of indicated volume	
	2.5 µL	2 % of indicated volume	
	5 µL	0.8 % of indicated volume	
	10 µL	0.6 % of indicated volume	
	20 µL	0.3 % of indicated volume	
	25 µL	0.3 % of indicated volume	
	30 µL	0.3 % of indicated volume	
	50 µL	0.2 % of indicated volume	
	100 µL	0.3 % of indicated volume	
	150 µL	0.3 % of indicated volume	
	200 µL	0.3 % of indicated volume	
300 µL	0.3 % of indicated volume		

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Piston Volume Devices <sup>1</sup>	500 µL 600 µL 1 mL 1.2 mL 2 mL 2.5 mL 5 mL 10 mL 12.5 mL 25 mL	0.2 % of indicated volume 0.2 % of indicated volume 0.1 % of indicated volume 0.2 % of indicated volume 0.1 % of indicated volume 0.3 % of indicated volume 0.1 % of indicated volume 0.1 % of indicated volume 0.1 % of indicated volume 0.1 % of indicated volume	Gravimetric Calibration Referenced to Mass Balances: Mettler Toledo XP26PC -Mettler Toledo SAG105 -Mettler Toledo MCP105 (Movil Balance) ISO 8655 Family
Motor Driven Piston Burettes	1 mL 2 mL 5 mL 10 mL 20 mL 25 mL 50 mL 100 mL	0.2 % of indicated volume 0.2 % of indicated volume 0.1 % of indicated volume 0.07 % of indicated volume 0.07 % of indicated volume 0.07 % of indicated volume 0.05 % of indicated volume 0.03 % of indicated volume	Gravimetric Calibration Referenced to Mass Balances, ISO 8655 Family  ISO 8655-3 Piston Burettes
Manual Piston Burettes	1 mL 2 mL 5 mL 10 mL 20 mL 25 mL 50 mL 100 mL	0.2 % of indicated volume 0.2 % of indicated volume 0.1 % of indicated volume 0.1 % of indicated volume 0.07 % of indicated volume 0.07 % of indicated volume 0.07 % of indicated volume 0.07 % of indicated volume	Gravimetric Calibration Referenced to Mass Balances, ISO 8655 Family  ISO 8655-3 Piston Burettes
Piston Dispensers	0,01 mL 0,02 mL 0,05 mL 0,1 mL 0,2 mL 0,5 mL 1 mL 2 mL 5 mL 10 mL 25 mL 50 mL 100 mL 200 mL	0.7 % of indicated volume 0.7 % of indicated volume 0.5 % of indicated volume 0.5 % of indicated volume 0.3 % of indicated volume 0.3 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume	Gravimetric Calibration Referenced to Mass Balances, ISO 8655 Family  ISO 8655-5 Dispensers

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Piston Dilutors	0.05 mL 0.1 mL 0.2 mL 0.5 mL 1 mL 2 mL 5 mL 10 mL 25 mL 50 mL 100 mL	0.6 % of indicated volume 0.5 % of indicated volume 0.3 % of indicated volume 0.3 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume	Gravimetric Calibration Referenced to Mass Balances, ISO 8655 Family  ISO8655-4 Dilutors
Laboratory Glassware/ Burettes	1 mL 2 mL 5 mL 6 mL 10 mL 25 mL 30 mL 50 mL 100 mL	0.2 % of indicated volume 0.2 % of indicated volume 0.06 % of indicated volume 0.1 % of indicated volume 0.05 % of indicated volume 0.06 % of indicated volume 0.1 % of indicated volume 0.03 % of indicated volume 0.12 % of indicated volume	Gravimetric Calibration Balances: Mettler Toledo XP26PC Mettler Toledo SAG105 Mettler Toledo XS203S ISO 385 STANDARD
Laboratory Glassware/ Graduated Pipettes	0.1 mL 0.2 mL 0.5 mL 1 mL 2 mL 5 mL 10 mL 20 mL 25 mL 50 mL 100 mL	2 % of indicated volume 2 % of indicated volume 0.7 % of indicated volume 0.2 % of indicated volume 0.14 % of indicated volume 0.07 % of indicated volume 0.05 % of indicated volume 0.035 % of indicated volume 0.03 % of indicated volume 0.02 % of indicated volume 0.015 % of indicated volume	Gravimetric Calibration Balances: Mettler Toledo XP26PC Mettler Toledo SAG105 Mettler Toledo XS203S ISO 835 STANDARD
Laboratory Glassware/ Single Volume Pipettes	0.5 mL 1 mL 2 mL 5 mL 10 mL 20 mL 25 mL 50 mL 100 mL	0.7 % of indicated volume 0.2 % of indicated volume 0.14 % of indicated volume 0.07 % of indicated volume 0.05 % of indicated volume 0.035 % of indicated volume 0.03 % of indicated volume 0.02 % of indicated volume 0.015 % of indicated volume	Gravimetric Calibration Balances: Mettler Toledo XP26PC Mettler Toledo SAG105 Mettler Toledo XS203S ISO 648 STANDARD





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**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Laboratory Glassware/ One Mark Volumetric Flasks/ Graduated Flasks	1 mL 2 mL 5 mL 10 mL 20 mL 25 mL 50 mL 100 mL 200 mL 250 mL 500 mL 700 mL 800 mL 1 000 mL 2 000 mL	1.13 % of indicated volume 1.13 % of indicated volume 0.25 % of indicated volume 0.15 % of indicated volume 0.13 % of indicated volume 0.1 % of indicated volume 0.075 % of indicated volume 0.05 % of indicated volume 0.04 % of indicated volume 0.035 % of indicated volume 0.03 % of indicated volume 0.03 % of indicated volume 0.03 % of indicated volume 0.025 % of indicated volume 0.025 % of indicated volume	Gravimetric Calibration Balances: Mettler Toledo XP26PC Mettler Toledo SAG105 Mettler Toledo XS203S Mettler Toledo Model XPE505C Mettler Toledo Model XPR2004SC Mettler Toledo XPR10003SC Mettler Toledo XPR64003 LD5C ISO 1042 STANDARD
Test Tubes	5 mL 10 mL 25 mL 50 mL 100 mL 200 mL 250 mL 500 mL 1 000 mL	0.4 % of indicated volume 0.2 % of indicated volume 0.56 % of indicated volume 0.2 % of indicated volume 0.2 % of indicated volume 0.8 % of indicated volume 0.2 % of indicated volume 0.4 % of indicated volume 0.2 % of indicated volume	Gravimetric Calibration ISO 4788 STANDARD
Chemical Glasses	500 mL 600 mL 700 mL 800 mL 1 000 mL	0.1 % of indicated volume 0.08 % of indicated volume 0.07 % of indicated volume 0.06 % of indicated volume 0.07 % of indicated volume	Gravimetric Calibration ISO 1042 STANDARD
Pycnometer	25 mL 50 mL 100 mL	0.005 % of indicated volume 0.005 % of indicated volume 0.005 % of indicated volume	Gravimetric Calibration ISO 3507 STANDARD
Metallic Volumetrics	19 L 20 L	0.015 % of indicated volume 0.015 % of indicated volume	Gravimetric Calibration OIML R120

### Photometry and Radiometry

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Wavelength / Spectrophotometer <sup>1</sup>	(219 to 641) nm	0.16 nm	Holmium Oxide Reference Material
Absorbance /Photometric Scale <sup>1</sup>	1 % Au 3 % Au 10 % Au 20 % Au 30 % Au 50 % Au 90 % Au	0.005 9 Au 0.005 2 Au 0.002 8 Au 0.002 8 Au 0.002 8 Au 0.002 8 Au 0.002 8 Au	Neutral Density Filters with Different Transmittance Percentages

### Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature/ Digital Thermometers Direct Indication Thermometers Temperature Data Loggers Bimetallic Thermometers <sup>1</sup>	(-30 to 250) °C	0.05 °C	Digital Thermometer ISOTECH 935-14-95H ISOTECH T100-250-316-9 TESTO 614.024 Bath: INSCO 777; ISOTECH Orion 796 H; ISOTECH Fast Cal
Liquid-in-Glass Thermometers	(-30 to 250) °C	0.1 °C	INSCO 777 Calibration Bath, Isotech Chamber Thermo Scientific Heratharm IMC18
Environmental Thermometers	(17 to 40) °C	0.23 °C	Infrared Blackbody Temperature Calibrator $\epsilon = 0.95, \lambda = (8 \text{ to } 14) \mu\text{m}$
Infrared (IR) Thermometers	(30 to 45) °C	0.67 °C	Temperature Dataloggers, Thermometer with Type K Thermocouple Probe
Temperature Measure, Incubators, Coolers, Ovens, Circulating Baths, Environmental Chambers, Autoclaves	(-80 to -40) °C (-40 to -20) °C (-20 to 20) °C (20 to 140) °C (140 to 250) °C (250 to 600) °C (600 to 1 200) °C	1.2 °C 0.48 °C 0.37 °C 0.18 °C 1.3 °C 2.1 °C 2.7 °C	Comparison to Vaisala Indicator/Probe, Chamber
Humidity Measuring Equipment	(40 to 70) %RH	2.2 %RH	



**Time and Frequency**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Centrifugal Speed <sup>1,2</sup>	(10 to 25) rpm (25 to 100) rpm (100 to 1 000) rpm (1 000 to 93 750) rpm	0.001 % of reading + 0.1 rpm 0.001 % of reading + 0.1 rpm 0.000 5 % of reading + 0.1 rpm 0.000 5 % of reading + 1 rpm	Digital Tachometer Extech 461995, Digital Tachometers Testo 465 and 470
Cardiac Rate/ECG Multi-parameter Monitor <sup>1,2</sup> (Electrical Simulation)	(60 to 300) BPM	0.82 BPM	Patient Simulator MPS450

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ( $k=2$ ), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. rpm = revolutions per minute; BPM = beats per minute.
3. The nominal values listed are approximate. Certified values will be utilized on the calibration certificate and in Measurement Uncertainty calculations at the time of calibration.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2854.



Jason Stine, Vice President