



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

INGMAR MEDICAL  
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Pittsburgh, PA 15206  
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CALIBRATION

Valid To: February 28, 2023

Certificate Number: 4172.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1,3</sup>:

I. Fluid Quantities

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Volume – Measuring Equipment	10 mL	0.59 mL	Hans Rudolph syringes: Model series 5520
	100 mL	0.95 mL	Model series 5510
	1 L	8.3 mL	Model series 5540

II. Mechanical

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Pneumatic Pressure – Measure Barometric	(98 to 102) kPa	0.14 kPa	Mensor barometric pressure meter

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Pneumatic Pressure – Measure (cont)			
Gage	(108 to 112) cm·H <sub>2</sub> O (58 to 62) cm·H <sub>2</sub> O (18 to 22) cm·H <sub>2</sub> O	0.28 cm·H <sub>2</sub> O 0.16 cm·H <sub>2</sub> O 0.10 cm·H <sub>2</sub> O	Mensor pressure meter
Vacuum	(-38 to -42) cm·H <sub>2</sub> O	0.089 cm·H <sub>2</sub> O	Mensor pressure meter

### III. Thermodynamics

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Temperature – Measure	0 °C (19 to 27) °C	0.21 °C 0.18 °C	Ebro temperature sensor model TFX 410

<sup>1</sup> This laboratory may offer commercial calibration service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>3</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.

<sup>4</sup> The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.



# Accredited Laboratory

A2LA has accredited

**INGMAR MEDICAL**

*Pittsburgh, PA*

for technical competence in the field of

**Calibration**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets *R205 – Specific Requirements: Calibration Laboratory Accreditation Program*. 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).



Presented this 10<sup>th</sup> day of March 2021.

A blue ink signature of a person, likely the Vice President of Accreditation Services, written over a horizontal line.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 4172.01  
Valid to February 28, 2023

*For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.*