



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

INGMAR MEDICAL
5940 Baum Blvd.
Pittsburgh, PA 15206
Anthony P. Rakow Phone: 412 441 8228

CALIBRATION

Valid To: March 31, 2019

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 calibrations¹:

I. Fluid Quantities

Parameter/Equipment	Range	CMC ² (±)	Comments
Volume	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 ² (±)	Comments
Pneumatic Pressure – Barometric	(98 to 102) kPa	0.14 kPa	Mensor barometric pressure meter

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

III. Thermodynamics

Parameter/Equipment	Range	CMC ² (±)	Comments
Temperature	0 °C (19 to 27) °C	0.23 °C 0.18 °C	Ebro temperature sensor model TFX 410

¹ This laboratory offers commercial calibration service.

² 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.



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 17025:2005 *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 8 January 2009*).



Presented this 7th day of December 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4172.01
Valid to March 31, 2019
Revised on January 21, 2019

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