



# CERTIFICATE OF ACCREDITATION

## ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

### **Geller MicroAnalytical Laboratory**

**426 Boston Street**

**Topsfield MA 01903**

has been assessed by ANAB  
and meets the requirements of international standard

## **ISO/IEC 17025:2005**

and national standard

## **ANSI/NCSL Z540-1-1994**

while demonstrating technical competence in the field of

## **CALIBRATION**

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1236

Certificate Number

  
ANAB Approval

Certificate Valid: 07/27/2018-08/14/2020  
Version No. 011 Issued: 07/27/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 17025:2005 AND ANSI/NCSL Z540-1-1994 (R2002)

Geller MicroAnalytical Laboratory

426 Boston Street  
Topsfield, MA 01903  
Joseph Geller  
978-887-7000

CALIBRATION

Valid to: August 14, 2020

Certificate Number: AC-1236

Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Magnification Standard Pitch	0.1 µm	3 nm	Scanning Electron Microscope Primary Standard
	0.5 µm	38 nm	
	1 µm	30 nm	
	2 µm	31 nm	
	50 µm	0.1 µm	
Stage Micrometer Pitch	500 µm	0.25 µm	Optical Microscope Primary Standard
	10 µm	1.1 µm	
	100 µm	1.1 µm	
	10 mm	2.9 µm	
Step Height	150 mm	2.9 µm	Profilometry Primary Standard
	0.1 µm	5 nm	

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. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1236.



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Vice President

