



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Quality Calibrations, Inc.**  
**119 Lawyers Row**  
**Centreville, MD 21617**

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).

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 06 November 2022

Certificate Number: AC-1347



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**

**Quality Calibrations, Inc.**

119 Lawyers Row  
Centreville, MD 21617  
Beverly Heiberger  
877-747-3883

**CALIBRATION**

Valid to: **November 6, 2022**

Certificate Number: **AC-1347**

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Piston-operated Volumetric Apparatus (Pipettes, Plungers)	(0.5 to 2) $\mu\text{L}$	0.07 $\mu\text{L}$	Mettler-Toledo Precision Balance, SOP QACCRED, and ISO 8655-2 utilized in the calibration of these volumetric devices.
	(2 to 10) $\mu\text{L}$	0.098 $\mu\text{L}$	
	(10 to 20) $\mu\text{L}$	0.099 $\mu\text{L}$	
	(20 to 100) $\mu\text{L}$	0.11 $\mu\text{L}$	
	(100 to 500) $\mu\text{L}$	0.17 $\mu\text{L}$	
	(500 to 1 000) $\mu\text{L}$	0.37 $\mu\text{L}$	
	(1 000 to 5 000) $\mu\text{L}$	0.66 $\mu\text{L}$	
(5 000 to 10 000) $\mu\text{L}$	1.2 $\mu\text{L}$		

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-1347.



R. Douglas Leonard Jr., VP, PILR SBU