

Certificate ID: **G44822**

### Certificate of Calibration

Quality Calibrations, Inc.



119 Lawyers Row  
Centreville, MD 21617  
Phone: 877-747-3883

#### Device Details

Device ID: **167-007**  
Serial Number: G44822  
Description: Rainin Pipette 200µL  
Method: QPS ISO SINGLE  
Test Plan: ISO 200 SC  
Operator: DEBRA NEILAN

Customer: Sample Customer  
Contact: Sample  
Location: Street  
Address: City State

#### Environmental Factors

Air Temperature: 21.00 °C  
Barometric Pressure: 29.98 inHg  
Relative Humidity: 31 %  
Liquid Density: 0.99800  
Air Density: 0.00120  
Z Factor: 1.00306

Calibration Date: **01-Nov-2023**  
Calibration Type: **Pipette Calibration**

Status: **Passed**  
Next Due: **31-May-2024**  
Interval: **6 months**

Comment: N/A

#### Measurement Standards

Device ID	Description	Serial Number	Next Calibration
1114512406	METTLER AG 245	1114512406	30-Jun-2024
221461525	Digital Barometer	221461525	19-Apr-2024
THERMOMETER PRS	Enviro-Safe	PRS-T1	31-Mar-2025

#### As Calibrated

Summary Statistics				Accuracy %		Precision %		Status	Sample Volumes (µL)				
200.0 uL	Mean	SD	Unc. +/-	Actual	Target	Actual	Target		1	2	3	4	5
Ch 1	200.50	0.30	0.42	0.251	0.800	0.149	0.300	Passed	200.63	200.66	200.58	199.97	200.66
Ch 1	100.41	0.13	0.35	0.415	1.600	0.125	0.600	Passed	100.33	100.62	100.46	100.35	100.33
Ch 1	20.07	0.04	0.33	0.367	8.000	0.201	3.000	Passed	20.12	20.05	20.03	20.05	20.11

#### Statement of Traceability

This certificate has been issued in accordance with QCI SOP QACCRED and ISO 8655-2 Specifications. This statement certifies that this calibration has been performed with instruments and standards traceable to SI units through NIST or equivalent National Metrology Institute. This certificate shall not be reproduced except in full, without written approval of the laboratory. These results relate only to item calibrated and the results apply to sample as received. QCI uses a simple acceptance approach to the TUR. Customer is to determine if the TUR Accuracy ratio (accuracy over uncertainty) is acceptable.



Measurement Uncertainties are determined using the factor of k=2 at a 95% confidence level.

ISO 17025:2017 Certified Certificate AC 1347

Completed by: DEBRA NEILAN *Debra Neilan*

Date: November 1, 2023

Reviewed by: Nicole Simpson *Nicole Simpson*

Date: November 2, 2023