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ACCREDITED CERT #2039.01

# Pipette Calibration Certificate
## 001239855

Customer: BRAZORIA COUNTY AUDITOR
3602 COUNTY ROAD 45

ANGLETON, TX 77515-9575
Work Order: 00143741
Contact: ALEIA WINTERS (aleiaw@brazoria-county.com)

Asset ID: 041815
Serial No.: 041815
Equipment Type: PIPETTE

Result: PASS
Cal Date: 04/07/2025
Next Cal Date: 4/7/2026
Performed At: Allometric's Laboratory
Performed By: ITHOMPSON

### TEST ENVIRONMENT DATA

| | | | | |
|---|---|---|---|---|
| Start: | Air Temperature: 19.8 °C | Water Temperature: 19.91 °C | Humidity: 50.0 % | Barometric Pressure: 1013 hPa |
| Stop: | Air Temperature: 20.3 °C | Water Temperature: 19.98 °C | Humidity: 50.0 % | Barometric Pressure: 1013 hPa |

Manufacturer: HAMILTON
Model Number: 1708-36
Capacity: 100 µl
Type: A - Variable Volume
Channel: Single
Accuracy Tol.: ±0.80 µl [1]
Precision Tol.: ±0.30 µl [1]
z-factor: 1.00284 µl/mg

[1] ISO 8655 tolerances.

### TEST DATA

| | As Found Data | | | As Returned Data | | |
|---|---|---|---|---|---|---|
| Test Volume | 10 µl | 50 µl | 100 µl | 10 µl | 50 µl | 100 µl |
| Sample 1 (mg) | 9.67 | 49.82 | 100.29 | 9.67 | 49.82 | 100.29 |
| Sample 2 (mg) | 9.75 | 49.63 | 100.39 | 9.75 | 49.63 | 100.39 |
| Sample 3 (mg) | 9.80 | 49.90 | 100.20 | 9.80 | 49.90 | 100.20 |
| Sample 4 (mg) | 9.91 | 49.94 | 100.32 | 9.91 | 49.94 | 100.32 |
| Sample 5 (mg) | 9.99 | 49.84 | 100.50 | 9.99 | 49.84 | 100.50 |
| Sample 6 (mg) | 10.03 | 50.10 | 100.48 | 10.03 | 50.10 | 100.48 |
| Sample 7 (mg) | 9.83 | 49.85 | 100.36 | 9.83 | 49.85 | 100.36 |
| Sample 8 (mg) | 10.05 | 50.16 | 99.97 | 10.05 | 50.16 | 99.97 |
| Sample 9 (mg) | 10.17 | 50.02 | 99.85 | 10.17 | 50.02 | 99.85 |
| Sample 10 (mg) | 10.26 | 50.33 | 100.36 | 10.26 | 50.33 | 100.36 |
| Mean (mg) | 9.95 | 49.96 | 100.27 | 9.95 | 49.96 | 100.27 |
| Precision (µl) | 0.188 | 0.200 | 0.211 | 0.188 | 0.200 | 0.211 |
| V20 (µl) | 9.98 | 50.10 | 100.56 | 9.98 | 50.10 | 100.56 |
| Error (µl) | -0.02 | 0.10 | 0.56 | -0.02 | 0.10 | 0.56 |
| Result | Pass | Pass | Pass | Pass | Pass | Pass |
| Uncertainty k=2 | ±0.38 µl | ±0.4 µl | ±0.42 µl | ±0.38 µl | ±0.4 µl | ±0.42 µl |

*Result: The decision rule used is Simple Acceptance as defined in ILAC G8 and ISO 8655-6.

### TEST EQUIPMENT

| Description | ID | Serial Number | Cal. Due Date |
|---|---|---|---|
| LAB ENVIRONMENTAL MONITOR | 1251 | 73167 | 4/30/2025 |
| DIGITAL THERMOMETER | 3013 | 192608473 | 4/30/2025 |
| BALANCE / PIPETTE BALANCE | 6050 | T0102697 | 4/30/2025 |

| Balance Model | Sensitivity |
|---|---|
| AND AD4212B-101 | 101g x.1mg/31x.01/5.1x.001 |

### PROCEDURE

| Procedure Name | Description | Revision Level | Revision Date |
|---|---|---|---|
| 5-4WI06 | PIPETTE CALIBRATION IAW ISO 8655-6 | H | 11/20/2024 |

Inspections and measurements were performed in accordance with ISO 8655-6:2002(E) and ISO 17025. Pass/Fail status determination is derived from allowable tolerances established in ISO 8655 unless other tolerances are specifically requested by the client. If this is an accredited report, then our accredited logo will appear in the top right corner and the uncertainty associated with these measurements were determined using a coverage factor of k=2 and is not included in the determination of Pass/Fail status. This calibration is traceable to the SI through NIST or other NMI utilizing the equipment shown on the calibration certificate.

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### COMMENTS

--------- end report ---------

Approved and Released by: Terry Baldwin, Quality Manager
Date of Issue: 04/07/2025

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