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ACCREDITED CERT #2039.01

Pipette Calibration Certificate
001239823

Customer: BRAZORIA COUNTY AUDITOR
3602 COUNTY ROAD 45

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

Asset ID: UU45222
Serial No.: UU45222
Equipment Type: PIPETTE

Result: ADJUSTED
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: 20.0 °C	Water Temperature: 20.27 °C	Humidity: 50.0 %	Barometric Pressure: 1013 hPa
Stop:	Air Temperature: 20.6 °C	Water Temperature: 20.27 °C	Humidity: 50.0 %	Barometric Pressure: 1013 hPa

Manufacturer: THERMO SCIENTIFIC
Model Number: FINNIPIPETTE F2
Capacity: 200 µl
Type: A - Variable Volume
Channel: Single
Accuracy Tol.: ±1.6 µl [1]
Precision Tol.: ±0.6 µl [1]
z-factor: 1.00291 µl/mg

[1] ISO 8655 tolerances.

TEST DATA

	As Found Data			As Returned Data		
Test Volume	20 µl	100 µl	200 µl	20 µl	100 µl	200 µl
Sample 1 (mg)	22.2	103.2	203.2	21.5	100.6	200.8
Sample 2 (mg)	22.5	102.0	204.1	19.3	99.7	200.7
Sample 3 (mg)	22.2	102.4	204.1	20.0	100.7	200.9
Sample 4 (mg)	22.4	102.0	202.9	20.2	99.4	201.0
Sample 5 (mg)	21.9	102.8	203.2	20.3	100.2	199.2
Sample 6 (mg)	22.0	102.3	202.9	20.2	100.2	200.4
Sample 7 (mg)	22.2	103.1	203.8	20.2	100.3	201.0
Sample 8 (mg)	22.1	102.9	203.3	20.2	100.0	200.2
Sample 9 (mg)	22.4	102.5	204.6	20.6	100.1	200.6
Sample 10 (mg)	22.4	102.8	203.1	20.0	100.7	200.8
Mean (mg)	22.2	102.6	203.5	20.2	100.2	200.6
Precision (µl)	0.195	0.427	0.588	0.550	0.423	0.542
V20 (µl)	22.3	102.9	204.1	20.3	100.5	201.2
Error (µl)	2.3	2.9	4.1	0.3	0.5	1.2
Result	Fail	Fail	Fail	Pass	Pass	Pass
Uncertainty k=2	±0.4 µl	±0.86 µl	±1.2 µl	±1.1 µl	±0.85 µl	±1.1 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.

ACCEPTANCE OF THIS CERTIFICATION OR CALIBRATION DOCUMENT OR THE CONTINUED USE OF THE EQUIPMENT LISTED ON THIS DOCUMENT INDICATES AGREEMENT WITH ALLOMETRICS INC. TERMS AND CONDITIONS AS FOUND AT https://www.allometrics.com/terms-and-conditions/ AND AGREEMENT THAT THOSE CONDITIONS GOVERN ANY TRANSACTION RELATED TO THE CERTIFICATION, CALIBRATION, REPAIR OR USE OF ANY EQUIPMENT LISTED ON OR ASSOCIATED WITH THIS DOCUMENT.

COMMENTS

IT 4/7/25. PIPETTE FAILED AS FOUND. ADJUSTED WITHIN TOLERANCE.

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

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

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