





PIPETTE CALIBRATION CERTIFICATE 001167871

 Customer:
 BRAZORIA COUNTY AUDITOR
 Serial No.:
 H44206L
 Result:
 PASS

 ANGLETON, TX 77515-9575
 Asset ID:
 H44206L
 Cal Date:
 03-Jul-23

 Model Order:
 00433570
 New Cell Date:
 03-Jul-23

Work Order: 00133578 Equipment Type: PIPETTE Next Cal Date: 03-Jul-24
Contact: ALEIA WINTERS
aleiaw@brazoria-county.com Performed By: JTAVERNIER

Test Environment Data

Start Test Data: Air Temperature: 20.5 °C Water Temperature: 20.00 °C Humidity: 50.0 % Barometric Pressure: 1011 mbar Stop Test Data: Air Temperature: 20.5 °C Water Temperature: 20.00 °C Humidity: 50.0 % Barometric Pressure: 1011 mbar

UUT Conformity Test Data

Detailed Faui			As Found Data			As Returned Data		
Detailed Equipment Information		Test Volumes:	1000 µl	5000 µl	10000 µl	1000 µl	5000 µl	10000 µl
Manufacturer:	EPPENDORF	Sample 1	1000.1	4994.5	9983.4	1000.1	4994.5	9983.4
Model:	REPEATER E3X	Sample 2	999.8	4991.8	9986.4	999.8	4991.8	9986.4
Type:	Α	Sample 3	999.7	4993.8	9986.6	999.7	4993.8	9986.6
Channel:	SINGLE	Sample 4	995.2	4994.3	9986.0	995.2	4994.3	9986.0
Capacity:	10000.0 µl	Sample 5	1002.7	4993.1	9988.0	1002.7	4993.1	9988.0
Resolution:	10 μΙ	Sample 6	1000.2	4993.0	9988.4	1000.2	4993.0	9988.4
Tolerance:	60 μΙ	Sample 7	999.9	4992.8	9988.1	999.9	4992.8	9988.1
Tolerance Directive:	ISO 8655 TYPES A D1	Sample 8	1000.1	4996.4	9988.3	1000.1	4996.4	9988.3
		Sample 9	1003.0	4994.8	9987.9	1003.0	4994.8	9987.9
Sample 10			999.7	4992.6	9989.6	999.7	4992.6	9989.6
	Mean Value o	of 10 readings (mg):	1000.0	4993.7	9987.3	1000.0	4993.7	9987.3
Standard Deviation [Precision] (mg):		2.0	1.3	1.6	2.0	1.3	1.6	
Water Density Conversion - Z factor (ul/mg):		1.00285	1.00285	1.00285	1.00285	1.00285	1.00285	

7.9 15.7 2.9 7.9 15.7 60 60 60 60 60 Pass Pass Pass Pass Pass 4.0 µl $2.5 \mu l$ $3.3 \mu l$ $4.0 \mu l$ $2.5 \mu l$ $3.3 \, \mu l$

1002.9

5007.9

10015.7

10015.7

Pass* indicates that the measurement is within the tolerance plus/minus the uncertainty of the measurement and a clear determination of pass/fail cannot be made.

		TEST EQUIPMENT		
Description		ID	Serial Number	Cal. Due Date
LAB ENVIRONMENTAL MONITOR		1 2 51	73167	4/30/2025
WEIGHT SET / 10MG TO 50G		1616	401299390	2/29/2024
DIGITAL THERMOMETER		3013	192608473	3/31/2024
BALANCE / PIPETTE BALANCE		6050	T0102697	8/31/2023
Balance Model	Sensitivity			
AND AD4212B-101	101g x.1mg/31x.01/5.1x.001			
		PROCEDURE		

Procedure Name 5-4WI06 PIPETTE CALIBRATION IAW ISO 8655-6

PIPETTE CALIBRATION IAW 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. 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 AFOUND 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

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

Approved and Released by: Terry Baldwin, Quality Manager

Date of Issue: 07/03/2023