



CALIBRATION CERTIFICATE

Certificate Number: G00G8RBS4D-0

Order Number: 222-586

RAININ
Pipetting 360°

Customer Houston Forensic Science Center
Jennifer O'Callaghan
500 Jefferson St

Houston, TX 77002-7300

Location 500 Jefferson St

Serial Number HM05677

Model GILSON MICROMAN E M250E

Next Service Jul.2023

Service Plan Onsite: Single Channel PM, 3x5 AR

Inspection Over All Condition: Good

Preventive Maintenance: Piston cleaned and re-greased

Adjustment: No-Adjustment made

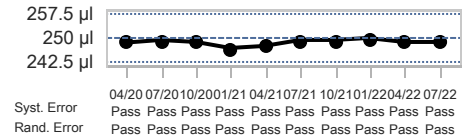
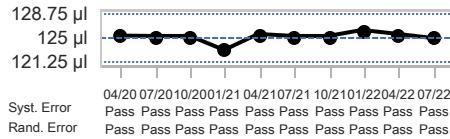
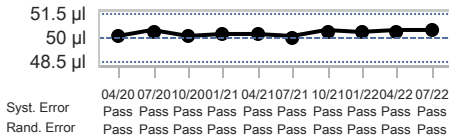
As left-Passed Steven Murray 01.Jul.2022

Conditions	Humidity	Start End	Air Temperature	Start End	Z-Factor
		58.07 % 58.07 %		20.28 °C 20.28 °C	1.0030 µl/mg
	Air Pressure	1013.20 hPa 1013.20 hPa	Water Temperature	20.28 °C 20.28 °C	Evaporation
					0 mg
Equipment	Balance	C132316237Next Cal. (30.Nov.2022)Readability (0.0001 g)			Pipette Tip
	Climate Monitor	BP (QN400005684)Next Cal. (31.Dec.2022) Humidity - 122594359 (122594359)Next Cal. (31.Aug.2022) Temperature - 122594359 (122594359)Next Cal. (31.Aug.2022)			Specification Type
					Customer Supplied Custom

Test Volume (µl)	Weighings				
	1	2	3	4	5
50 µl	50.4 mg	50.6 mg	50.1 mg	50.0 mg	50.4 mg
125 µl	124.9 mg	124.5 mg	124.4 mg	124.7 mg	124.3 mg
250 µl	247.8 mg	247.6 mg	248.4 mg	247.7 mg	248.1 mg

Test Volume (µl)	Mean Volume (µl)	Systematic Error				Random Error				Expanded Uncertainty (µl)	Status
		Error (µl)	Limit (+/- µl)	Error (%)	Limit (+/- %)	Error (µl)	Limit (µl)	Error (CV%)	Limit (%)		
		50	50.45	0.45	1.5	0.9018	3	0.25	1.5	0.4870	3
125	124.93	-0.07	3.75	-0.05306	3	0.24	3.75	0.1933	3	0.68 µl (k=2.43)	Passed
250	248.7	-1.34	7.5	-0.5345	3	0.33	7.5	0.1319	3	1.6 µl (k=2)	Passed

As left History



Authorized Signatory, Steven Murray

01.Jul.2022

METTLER TOLEDO
ACCREDITED LABORATORY

7500 Edgewater Drive
Oakland, CA 94621

This calibration covered by this certificate is in accordance with ISO 8655-6:2002 and PS-125. Its measurements are traceable to SI through N.I.S.T. This laboratory has been accredited by A2LA for the requirements of ISO/IEC 17025:2017. The reported expanded uncertainty of measurement (U) is stated as the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95 %. Statement of compliance does not include the measurement of uncertainty. Mettler-Toledo Rainin LLC grants permission to reproduce this document in full only. ©2020 Mettler-Toledo Rainin, LLC