



# CALIBRATION CERTIFICATE

Certificate Number: J00G8YY2UL-0

Order Number: 222-881

**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** 31.Oct.2025

**Service Plan** Onsite: Single Channel PM, 3x5 AR

**Inspection** Over All Condition: No Problem Found

**Preventive Maintenance:** Piston cleaned and re-greased

**Adjustment:** No-Adjustment made

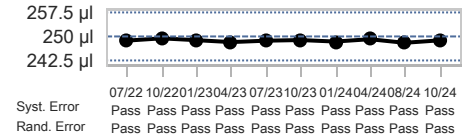
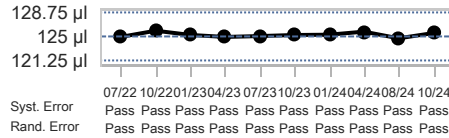
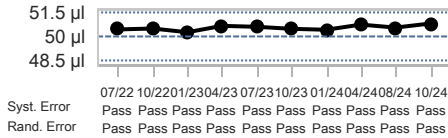
**As left-Passed** Steven Murray 01.Oct.2024

<b>Conditions</b>	<b>Humidity</b>	Start   End 55.5 %   55.5 %	<b>Air Temperature</b>	Start   End 19.57 °C   19.57 °C	<b>Z-Factor</b>	1.0029 µl/mg
	<b>Air Pressure</b>	1009.5 hPa   1009.5 hPa	<b>Water Temperature</b>	19.93 °C   19.93 °C		<b>Evaporation</b>
<b>Equipment</b>	<b>Balance</b>	C132316237Next Cal. (30.Nov.2024)Readability (0.0001 g)			<b>Specification Type</b>	Custom
	<b>Climate Monitor</b>	3-Wire PT100 Temperature sensor (E22152)Next Cal. (20.Dec.2024)   MS5611 Pressure (E25131)Next Cal. (02.Apr.2025)   SHT31 Relative Humidity (E25131)Next Cal. (02.Apr.2025)   SHT31 Temperature (E25131)Next Cal. (02.Apr.2025)				<b>Pipette Tip</b>

Test Volume (µl)	Weighings				
	1	2	3	4	5
50 µl	50.4 mg	50.8 mg	50.9 mg	50.7 mg	50.6 mg
125 µl	125.3 mg	125.4 mg	125.2 mg	125.0 mg	125.0 mg
250 µl	249.5 mg	247.6 mg	248.0 mg	247.8 mg	247.2 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	50.83	0.83	1.5	1.654	3	0.19	1.5	0.3795	3
125	125.54	0.54	3.75	0.4344	3	0.18	3.75	0.1429	3	0.53 µl (k=2.28)	Passed
250	248.7	-1.26	7.5	-0.5043	3	0.88	7.5	0.3543	3	2.6 µl (k=2.87)	Passed

## As left History



Authorized Signatory, Steven Murray

01.Oct.2024

**METTLER TOLEDO**  
ACCREDITED LABORATORY

7500 Edgewater Drive  
Oakland, CA 94621

This calibration certificate is in accordance with ISO 8655-7:2022 and PS-125 and only applies to the item tested. 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 expanded uncertainty of measurement (U) is the standard uncertainty of measurement multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%. Statement of compliance is simple acceptance (see PS-126.03 for uncertainty considerations). Mettler-Toledo Rainin grants permission to reproduce this document in full only. ©2024 Mettler-Toledo Rainin, LLC.