



# CALIBRATION CERTIFICATE

Certificate Number: J00G8YY2WD-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** O495461

**Model** EPPENDORF MULTIPETTE M4 1ML COMBITIP  
**Next Service** 31.Oct.2025  
**Service Plan** Onsite: Single Channel PM, 3x5 AR

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

**Preventive Maintenance:** Cleaned and checked

**Adjustment:** No-Adjustment made

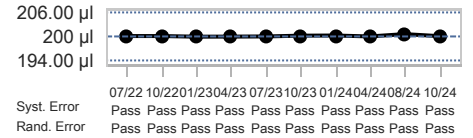
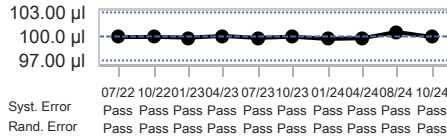
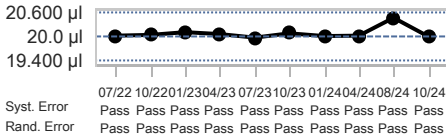
**As left-Passed** Steven Murray 01.Oct.2024

<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>	0 mg
<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>	Customer Supplied

Test Volume (µl)	Weighings				
	1	2	3	4	5
20.0 µl	20.2 mg	19.7 mg	19.9 mg	19.9 mg	20.0 mg
100.0 µl	99.4 mg	99.7 mg	99.6 mg	99.6 mg	100.0 mg
200 µl	198.9 mg	199.4 mg	199.3 mg	199.3 mg	200.6 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 (%)		
		(µl)	(µl)	(%)	(%)	(µl)	(µl)	(CV%)	(%)		
20.0	20.00	-0.002	0.600	-0.01087	3.00	0.18	0.600	0.9110	3.00	0.53 µl (k=2.43)	Passed
100.0	99.95	-0.05	3.00	-0.05099	3.00	0.22	3.00	0.2198	3.00	0.63 µl (k=2.52)	Passed
200	200.1	0.08	6.00	0.03928	3.00	0.65	6.00	0.3229	3.00	1.9 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.