



# CALIBRATION CERTIFICATE

Certificate Number: F00G8H6E2V-0

Order Number: 222-414

**RAININ**  
Pipetting 360°

**Customer** Houston Forensic Science Center  
Callan Hundl  
500 Jefferson St  
  
Houston, TX 77002-7300

**Location** 500 Jefferson St

**Serial Number** O495461

**Model** EPPENDORF MULTIPETTE M4 1ML COMBITIP  
**Next Service** Jul.2021  
**Service Plan** Onsite: Single Channel PM, 3x5 AR

**Inspection** Over All Condition: Good

**Preventive Maintenance:** Cleaned and checked

**Adjustment:** No-Adjustment made

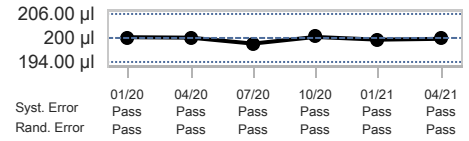
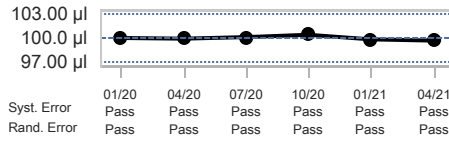
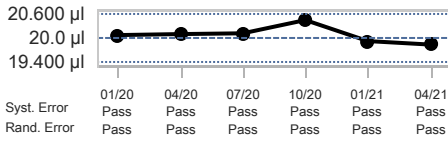
**As left-Passed** Steven Murray 05.Apr.2021

<b>Conditions</b>	<b>Humidity</b>	Start   End 67.72 %   67.72 %	<b>Air Temperature</b>	Start   End 17.68 °C   17.68 °C	<b>Z-Factor</b>	1.0024 µl/mg	
	<b>Air Pressure</b>	1019.98 hPa   1019.98 hPa	<b>Water Temperature</b>	17.68 °C   17.68 °C		<b>Evaporation</b>	0 mg
<b>Equipment</b>	<b>Balance</b>	B442140901Next Cal. (31.Jul.2021)Readability (0.0001 g)				<b>Pipette Tip</b>	Customer Supplied
	<b>Climate Monitor</b>	BP (QN400005684)Next Cal. (31.Dec.2021)   Humidity - 200017918 (200017918)Next Cal. (10.Jan.2022)   Temperature - 200017918 (200017918)Next Cal. (10.Jan.2022)				<b>Specification Type</b>	Custom

Test Volume (µl)	Weighings				
	1	2	3	4	5
20.0 µl	20.0 mg	19.5 mg	20.0 mg	19.7 mg	19.7 mg
100.0 µl	99.6 mg	99.5 mg	99.7 mg	99.2 mg	99.1 mg
200 µl	198.9 mg	200.0 mg	198.3 mg	199.2 mg	200.1 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 (%)		
20.0	19.83	-0.17	<b>0.600</b>	-0.8626	<b>3.00</b>	0.22	<b>0.600</b>	1.096	<b>3.00</b>	0.62 µl (k=2.52)	Passed
100.0	99.66	-0.34	<b>3.00</b>	-0.3414	<b>3.00</b>	0.26	<b>3.00</b>	0.2604	<b>3.00</b>	0.76 µl (k=2.65)	Passed
200	199.8	-0.22	<b>6.00</b>	-0.1108	<b>3.00</b>	0.76	<b>6.00</b>	0.3805	<b>3.00</b>	2.2 µl (k=2.87)	Passed

## As left History



Serial #



Certificate #

Authorized Signatory, Steven Murray

05.Apr.2021

**METTLER TOLEDO**

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