



# CALIBRATION CERTIFICATE

Certificate Number: F00G80Y3JG-0

Order Number: 222-380

**RAININ**  
Pipetting 360°

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

**Location** 500 Jefferson St

**Serial Number** K46790G

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

**Inspection** Over All Condition: Good

**Preventive Maintenance:** Cleaned and checked

**Adjustment:** No-Adjustment made

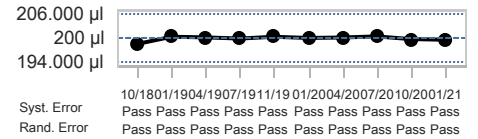
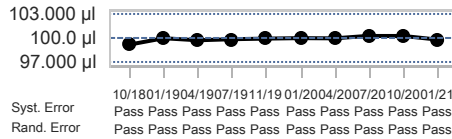
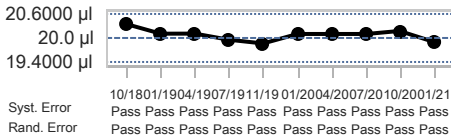
**As left-Passed** Steven Murray 08.Jan.2021

<b>Conditions</b>	<b>Humidity</b>	Start   End 42.23 %   42.23 %	<b>Air Temperature</b>	Start   End 19.41 °C   19.41 °C	<b>Z-Factor</b>	1.0028 µl/mg	
	<b>Air Pressure</b>	1025.73 hPa   1025.73 hPa	<b>Water Temperature</b>	19.41 °C   19.41 °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	19.7 mg	20.0 mg	19.9 mg	20.1 mg	19.5 mg
100.0 µl	99.7 mg	99.2 mg	99.3 mg	99.6 mg	99.8 mg
200 µl	198.8 mg	199.3 mg	198.7 mg	199.4 mg	198.7 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	19.90	-0.10	0.6000	-0.5222	3.00	0.24	0.6000	1.214	3.00	0.68 µl (k=2.52)	Passed
100.0	99.80	-0.20	3.000	-0.2013	3.00	0.26	3.000	0.2601	3.00	0.76 µl (k=2.65)	Passed
200	199.54	-0.46	6.000	-0.2314	3.00	0.34	6.000	0.1719	3.00	0.96 µl (k=2.65)	Passed

## As left History



Serial #



Certificate #

Authorized Signatory, Steven Murray

08.Jan.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