



# CALIBRATION CERTIFICATE

Certificate Number: F00G80Y3D4-0

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** O495461

**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

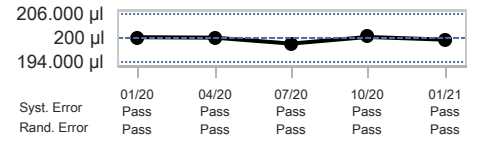
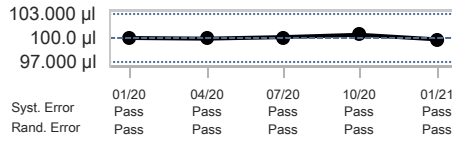
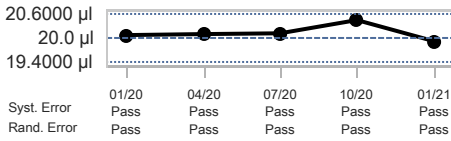
**As left-Passed** Steven Murray 08.Jan.2021

<b>Conditions</b>	<b>Humidity</b>	Start   End	<b>Air Temperature</b>	Start   End	<b>Z-Factor</b>	1.0028 µl/mg	
	<b>Air Pressure</b>	42.23 %   42.23 %	<b>Water Temperature</b>	19.39 °C   19.39 °C		<b>Evaporation</b>	0 mg
<b>Equipment</b>	<b>Balance</b>	1025.73 hPa   1025.73 hPa	Readability (0.0001 g)		<b>Pipette Tip</b>	Customer Supplied	
	<b>Climate Monitor</b>	BP (QN400005684)Next Cal. (31.Jul.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	20.0 mg	19.6 mg	19.9 mg	19.8 mg
100.0 µl	99.8 mg	99.6 mg	99.5 mg	99.4 mg	99.4 mg
200 µl	199.1 mg	198.9 mg	199.2 mg	198.9 mg	198.9 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	19.92	-0.08	<b>0.6000</b>	-0.4220	<b>3.00</b>	0.17	<b>0.6000</b>	0.8426	<b>3.00</b>	0.48 µl (k=2.32)	Passed
100.0	99.82	-0.18	<b>3.000</b>	-0.1813	<b>3.00</b>	0.17	<b>3.000</b>	0.1681	<b>3.00</b>	0.48 µl (k=2.32)	Passed
200	199.56	-0.44	<b>6.000</b>	-0.2214	<b>3.00</b>	0.14	<b>6.000</b>	0.07107	<b>3.00</b>	0.38 µl (k=2)	Passed

## As left History



Serial #



Certificate #

Authorized Signatory, Steven Murray

08.Jan.2021

**METTLER TOLEDO**