CALIBRATION CERTIFICATE

Certificate Number: F00G80Y3JG-0

Order Number: 222-380

2161.01

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

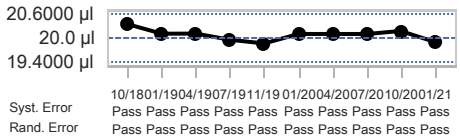
		Start | End		Start | End		
Conditions	**Humidity**	42.23 % | 42.23 %	**Air Temperature**	19.41 °C | 19.41 °C	**Z-Factor**	1.0028 µl/mg
	Air Pressure	1025.73 hPa | 1025.73 hPa	**Water Temperature**	19.41 °C | 19.41 °C	**Evaporation**	0 mg
Equipment	**Balance**	B442140901Next Cal. (31.Jul.2021)Readability (0.0001 g)			**Pipette Tip**	Customer Supplied
	Climate Monitor	BP (QN400005684)Next Cal. (31.Dec.2021) | Humidity - 200017918 (200017918)Next Cal. (10.Jan.2022) | Temperature - 200017918 (200017918)Next Cal. (10.Jan.2022)			**Specification Type**	Custom

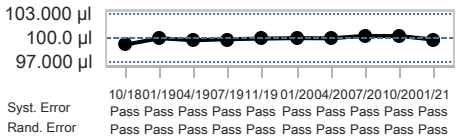
Test Volume (µl)	Weighings				
	1	2	3	4	5
20.0 µl	19.7 mg	20.0 mg	19.9 mg	20.1 mg	19.5 mg
100.0 µl	99.7 mg	99.2 mg	99.3 mg	99.6 mg	99.8 mg
200 µl	198.8 mg	199.3 mg	198.7 mg	199.4 mg	198.7 mg

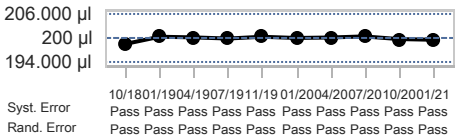
Results

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	19.90	-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