2161.01

CALIBRATION CERTIFICATE

Certificate Number: F00G8H6GZJ-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 K46790G

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

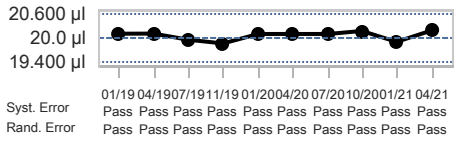
		Start | End		Start | End		
Conditions	**Humidity**	68.95 % | 68.95 %	**Air Temperature**	17.78 °C | 17.78 °C	**Z-Factor**	1.0025 µl/mg
	Air Pressure	1019.98 hPa | 1019.98 hPa	**Water Temperature**	17.78 °C | 17.78 °C	**Evaporation**	0 mg
Equipment	**Balance**	B442140901Next Cal. (31.Jul.2021)Readability (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

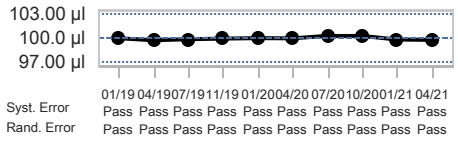
Test Volume (µl)	Weighings				
	1	2	3	4	5
20.0 µl	20.8 mg	19.8 mg	20.1 mg	19.9 mg	20.1 mg
100.0 µl	99.3 mg	99.3 mg	100.2 mg	99.3 mg	99.4 mg
200 µl	200.4 mg	199.5 mg	198.6 mg	198.9 mg	200.1 mg

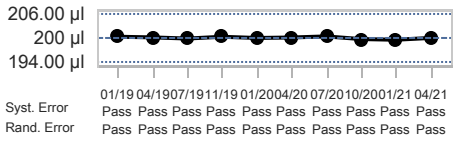
Results

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	20.2	0.19	**0.600**	0.9518	**3.00**	0.39	**0.600**	1.942	**3.00**	1.2 µl (k=2.87)	**Passed**
100.0	99.7	-0.25	**3.00**	-0.2512	**3.00**	0.39	**3.00**	0.3957	**3.00**	1.2 µl (k=2.87)	**Passed**
200	200.0	-0.001	**6.00**	-0.0006250	**3.00**	0.77	**6.00**	0.3834	**3.00**	2.2 µl (k=2.87)	**Passed**

As left History







Serial #

Certificate #

Authorized Signatory, Steven Murray
05.Apr.2021

METTLER TOLEDO