



CALIBRATION CERTIFICATE

Certificate Number: F00G80Y283-0

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 112207

Model EPPENDORF 4810 YELLOW 10µl-100µl
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

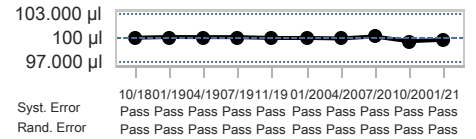
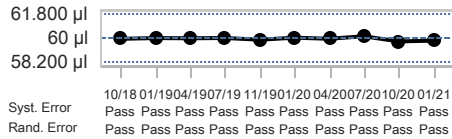
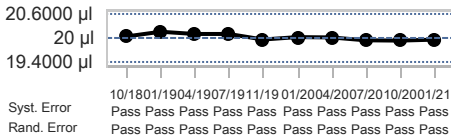
As left-Passed Steven Murray 08.Jan.2021

Conditions	Humidity	Start End	Air Temperature	Start End	Z-Factor
		42.18 % 42.18 %		19.38 °C 19.38 °C	1.0028 µl/mg
	Air Pressure	1025.73 hPa 1025.73 hPa	Water Temperature	19.38 °C 19.38 °C	Evaporation
					0 mg
Equipment	Balance	B442140901Next Cal. (31.Jul.2021)Readability (0.00001 g)			Pipette Tip
	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
					Customer Supplied Custom

Test Volume (µl)	Weighings				
	1	2	3	4	5
20 µl	19.86 mg	20.11 mg	19.67 mg	19.90 mg	19.96 mg
60 µl	59.51 mg	59.60 mg	59.67 mg	59.73 mg	59.61 mg
100 µl	99.49 mg	99.44 mg	99.32 mg	99.52 mg	99.63 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	19.96	-0.044	0.6000	-0.2214	3	0.160	0.6000	0.8032	3	0.46 µl (k=2.65)	Passed
60	59.79	-0.209	1.800	-0.3484	3	0.083	1.800	0.1381	3	0.27 µl (k=2)	Passed
100	99.76	-0.241	3.000	-0.2415	3	0.114	3.000	0.1140	3	0.27 µl (k=2)	Passed

As left History



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