



CALIBRATION CERTIFICATE

Certificate Number: F00G80Y5VQ-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 042733438

Model VWR SIGNATURE 2-20 WITH TIP EJECTOR
Next Service Apr.2021
Service Plan Onsite: Single Channel PM, 3x5 AR

Inspection Over All Condition: Good

Preventive Maintenance: Piston cleaned and re-greased
Adjustment: No-Adjustment made

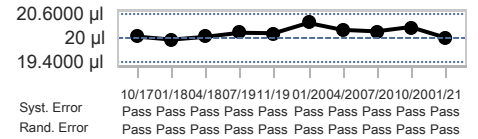
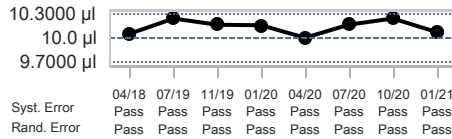
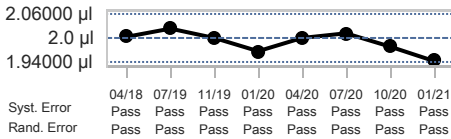
As left-Passed Steven Murray 08.Jan.2021

Conditions	Humidity	Start End 42.34 % 42.34 %	Air Temperature	Start End 19.64 °C 19.64 °C	Z-Factor	1.0028 µl/mg
	Air Pressure	1025.73 hPa 1025.73 hPa	Water Temperature	19.64 °C 19.64 °C		Evaporation
Equipment	Balance	B442140901Next Cal. (31.Jul.2021)Readability (0.00001 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
2.0 µl	1.96 mg	1.97 mg	1.91 mg	1.99 mg	1.85 mg
10.0 µl	9.98 mg	9.94 mg	10.10 mg	10.17 mg	10.05 mg
20 µl	19.86 mg	19.99 mg	19.95 mg	19.97 mg	20.02 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 (%)		
		2.0	1.94	-0.059	0.06000	-2.929	3	0.057	0.06000	2.913	3
10.0	10.08	0.076	0.3000	0.7613	3	0.092	0.3000	0.9159	3	0.28 µl (k=2.87)	Passed
20	20.01	0.014	0.6000	0.06941	3	0.061	0.6000	0.3035	3	0.17 µl (k=2.52)	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