



CALIBRATION CERTIFICATE

Certificate Number: F00G8H6GF7-0

Order Number: 222-414

RAININ
Pipetting 360°

Customer Houston Forensic Science Center **Location** 500 Jefferson St **Serial Number** 042780009
 Callan Hundl
 500 Jefferson St
 Houston, TX 77002-7300
Model VWR SIGNATURE 1000-5000 WITH TIP EJECTOR
Next Service Jul.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

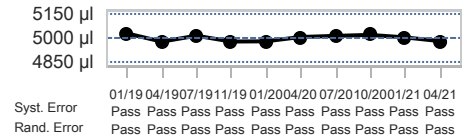
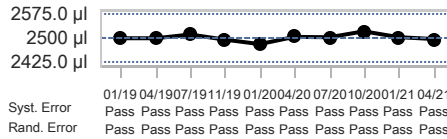
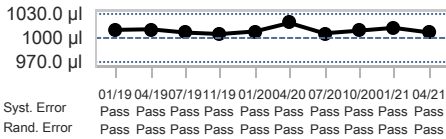
As left-Passed Steven Murray 05.Apr.2021

Conditions	Humidity 69.52 % 69.52 %	Air Temperature 17.71 °C 17.71 °C	Z-Factor 1.0024 µl/mg
	Air Pressure 1019.98 hPa 1019.98 hPa	Water Temperature 17.71 °C 17.71 °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
1000 µl	1007.6 mg	1004.8 mg	1006.7 mg	1000.9 mg	1004.1 mg
2500 µl	2493.7 mg	2492.5 mg	2494.2 mg	2490.0 mg	2483.1 mg
5000 µl	4965.1 mg	4961.3 mg	4965.8 mg	4962.9 mg	4986.9 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 (%)		
		1000	1007.2	7.23	30.0	0.7232	3.00	2.61	30.0		
2500	2497	-3.32	75.0	-0.1329	3.00	4.56	75.0	0.1826	3.00	13 µl (k=2.43)	Passed
5000	4980	-19.68	150	-0.3935	3.00	10.52	150	0.2112	3.00	31 µl (k=2.87)	Passed

As left History



Authorized Signatory, Steven Murray
 05.Apr.2021

METTLER TOLEDO