



# CALIBRATION CERTIFICATE

Certificate Number: F00G80Y34W-0

Order Number: 222-380

# RAININ

Pipetting 360°

**Customer** Houston Forensic Science Center **Location** 500 Jefferson St **Serial Number** 342782374  
 Callan Hundl  
 500 Jefferson St  
 Houston, TX 77002-7300  
**Model** VWR SIGNATURE 1000-5000 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

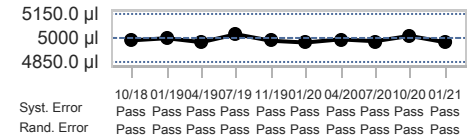
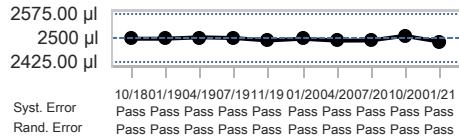
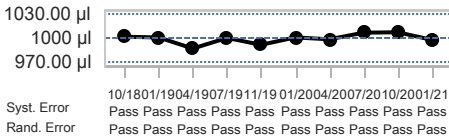
**As left-Passed** Steven Murray 08.Jan.2021

<b>Conditions</b>	<b>Humidity</b> 42.31 %   42.31 %	<b>Air Temperature</b> 19.43 °C   19.43 °C	<b>Z-Factor</b> 1.0028 µl/mg
	<b>Air Pressure</b> 1025.73 hPa   1025.73 hPa	<b>Water Temperature</b> 19.43 °C   19.43 °C	<b>Evaporation</b> 0 mg
<b>Equipment</b>	<b>Balance</b> B442140901Next Cal. (31.Jul.2021)Readability (0.0001 g)		<b>Pipette Tip</b> Customer Supplied
	<b>Climate Monitor</b> BP (QN400005684)Next Cal. (31.Dec.2021)   Humidity - 200017918 (200017918)Next Cal. (10.Jan.2022)   Temperature - 200017918 (200017918)Next Cal. (10.Jan.2022)		<b>Specification Type</b> Custom

Test Volume (µl)	Weighings				
	1	2	3	4	5
1000 µl	998.0 mg	993.2 mg	993.5 mg	994.4 mg	995.3 mg
2500 µl	2491.2 mg	2483.6 mg	2476.6 mg	2478.0 mg	2478.4 mg
5000 µl	4953.7 mg	4945.8 mg	4963.8 mg	4971.4 mg	4963.5 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	997.7	-2.33	30.00	-0.2334	3.00	1.93	30.00		
2500	2489	-11.49	75.00	-0.4597	3.00	6.02	75.00	0.2421	3.00	17 µl (k=2.52)	Passed
5000	4974	-26.47	150.0	-0.5295	3.00	9.99	150.0	0.2010	3.00	30 µl (k=2.87)	Passed

## As left History



Authorized Signatory, Steven Murray  
08.Jan.2021

# METTLER TOLEDO