



# CALIBRATION CERTIFICATE

Certificate Number: F00G8H6GKP-0

Order Number: 222-414

# 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** 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

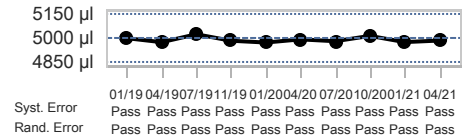
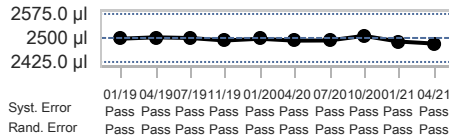
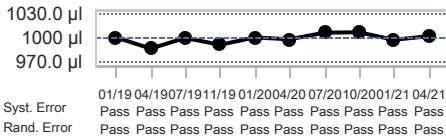
**As left-Passed** Steven Murray 05.Apr.2021

<b>Conditions</b>	<b>Humidity</b> 68.95 %   68.95 %	<b>Air Temperature</b> 17.74 °C   17.74 °C	<b>Z-Factor</b> 1.0024 µl/mg
	<b>Air Pressure</b> 1019.98 hPa   1019.98 hPa	<b>Water Temperature</b> 17.74 °C   17.74 °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	1003.2 mg	997.1 mg	1001.0 mg	995.9 mg	1001.7 mg
2500 µl	2487.2 mg	2487.2 mg	2465.5 mg	2466.3 mg	2474.8 mg
5000 µl	4974.9 mg	4973.5 mg	4978.6 mg	4953.0 mg	4977.3 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	2.18	30.0	0.2179	3.00	3.13	30.0	0.3128		
2500	-17.86	75.0	-0.7143	3.00	10.71	75.0	0.4314	3.00	32 µl (k=2.87)	Passed	
5000	-16.61	150	-0.3322	3.00	10.54	150	0.2114	3.00	31 µl (k=2.87)	Passed	

## As left History



Authorized Signatory, Steven Murray  
 05.Apr.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