



CALIBRATION CERTIFICATE

Certificate Number: G00G8RBR8H-0

Order Number: 222-586

RAININ

Pipetting 360°

Customer Houston Forensic Science Center
 Jennifer O'Callaghan
 500 Jefferson St
 Houston, TX 77002-7300

Location 500 Jefferson St
Serial Number 942780372
Model VWR HIGH PERFORMANCE PIPETTOR 5000 µl
Next Service Jul.2023
Service Plan Onsite: Single Channel PM, 3x5 AR

Inspection Over All Condition: Good

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

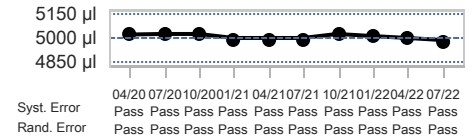
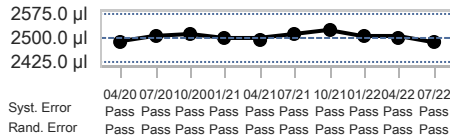
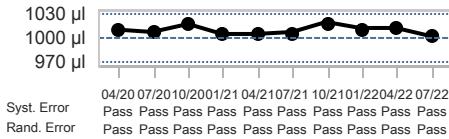
As left-Passed Steven Murray 01.Jul.2022

Conditions	Humidity 56.95 % 56.95 %	Air Temperature 20.11 °C 20.11 °C	Z-Factor 1.0029 µl/mg
	Air Pressure 1013.20 hPa 1013.20 hPa	Water Temperature 20.11 °C 20.11 °C	Evaporation 0 mg
Equipment	Balance C132316237Next Cal. (30.Nov.2022)Readability (0.0001 g)		Pipette Tip Customer Supplied
	Climate Monitor BP (QN400005684)Next Cal. (31.Dec.2022) Humidity - 122594359 (122594359)Next Cal. (31.Aug.2022) Temperature - 122594359 (122594359)Next Cal. (31.Aug.2022)		Specification Type Custom

Test Volume (µl)	Weighings				
	1	2	3	4	5
1000 µl	1002.2 mg	999.0 mg	998.6 mg	998.2 mg	998.2 mg
2500.0 µl	2480.1 mg	2472.8 mg	2484.4 mg	2477.4 mg	2482.5 mg
5000 µl	4965.6 mg	4958.6 mg	4952.5 mg	4961.8 mg	4964.1 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	2.14	30	0.2138	3	1.69	30	0.1689		
2500.0	-13.37	75	-0.5348	3	4.56	75	0.1833	3	13 µl (k=2.43)	Passed	
5000	-25.09	150	-0.5019	3	5.22	150	0.1049	3	15 µl (k=2.52)	Passed	

As left History



Authorized Signatory, Steven Murray
 01.Jul.2022

METTLER TOLEDO
 ACCREDITED LABORATORY
 7500 Edgewater Drive
 Oakland, CA 94621