



# CALIBRATION CERTIFICATE

Certificate Number: H00G83AUD4-0

Order Number: 222-766



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

**Location** 500 Jefferson St

**Serial Number** 342753263

**Model** VWR HIGH PERFORMANCE PIPETTOR 200 µl

**Next Service** 31.Oct.2024

**Service Plan** Onsite: Single Channel PM, 3x5 AR

**Inspection** Over All Condition: Good

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

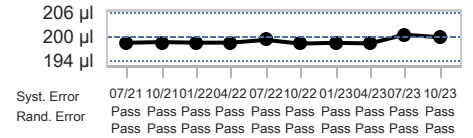
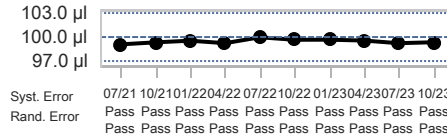
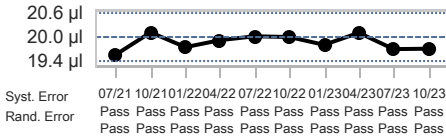
**As left-Passed** Steven Murray 30.Oct.2023

<b>Conditions</b>	<b>Humidity</b> 48.4 %   48.4 %	<b>Air Temperature</b> 20.0 °C   20.0 °C	<b>Z-Factor</b> 1.0029 µl/mg
	<b>Air Pressure</b> 1012.0 hPa   1012.0 hPa	<b>Water Temperature</b> 20.0 °C   20.0 °C	<b>Evaporation</b> 0 mg
<b>Equipment</b>	<b>Balance</b> C132316237Next Cal. (30.Nov.2023)Readability (0.0001 g)		<b>Specification Type</b> Custom
	<b>Climate Monitor</b> Bar. pressure abs. air pressure (2112149)Next Cal. (01.Dec.2023)   Humidity (2112149)Next Cal. (01.Dec.2023)   Temp (2112149)Next Cal. (01.Dec.2023)		<b>Pipette Tip</b> Customer Supplied

Test Volume (µl)	Weighings				
	1	2	3	4	5
20.0 µl	19.2 mg	19.4 mg	20.0 mg	19.5 mg	20.1 mg
100.0 µl	99.4 mg	99.1 mg	99.0 mg	98.7 mg	99.0 mg
200 µl	199.8 mg	199.1 mg	199.1 mg	199.4 mg	199.4 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 (%)		
20.0	19.7	-0.30	0.6	-1.515	3	0.39	0.6	1.992	3	1.2 µl (k=2.87)	Passed
100.0	99.33	-0.67	3	-0.6728	3	0.25	3	0.2534	3	0.74 µl (k=2.65)	Passed
200	199.94	-0.06	6	-0.03093	3	0.29	6	0.1445	3	0.83 µl (k=2.65)	Passed

## As left History



Authorized Signatory, Steven Murray  
 30.Oct.2023

**METTLER TOLEDO**  
 ACCREDITED LABORATORY  
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 Oakland, CA 94621