CALIBRATION CERTIFICATE

Certificate Number: J00G8YY3E7-0

Order Number: 222-881

2161.01

RAININ
Pipetting 360°

Customer Houston Forensic Science Center
Jennifer O'Callaghan
500 Jefferson St

Houston, TX 77002-7300

Location 500 Jefferson St

Serial Number PU08933

Model THERMO FINNPIPETTE F2 20-200 YELLOW
Next Service 31.Oct.2025
Service Plan Onsite: Single Channel PM, 3x5 AR

Inspection Over All Condition: No Problem Found

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

As left-Passed

Steven Murray 01.Oct.2024

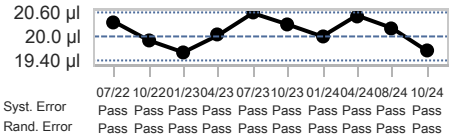
		Start | End		Start | End		
Conditions	**Humidity**	55.1 % | 55.1 %	**Air Temperature**	19.66 °C | 19.66 °C	**Z-Factor**	1.0029 µl/mg
	Air Pressure	1009.6 hPa | 1009.6 hPa	**Water Temperature**	19.94 °C | 19.94 °C	**Evaporation**	0 mg
Equipment	**Balance**	C132316237Next Cal. (30.Nov.2024)Readability (0.0001 g)			**Specification Type**	Custom
					Pipette Tip	Customer Supplied
	Climate Monitor	3-Wire PT100 Temperature sensor (E22152)Next Cal. (20.Dec.2024) | MS5611 Pressure (E25131)Next Cal. (02.Apr.2025) | SHT31 Relative Humidity (E25131)Next Cal. (02.Apr.2025) | SHT31 Temperature (E25131) Next Cal. (02.Apr.2025)				

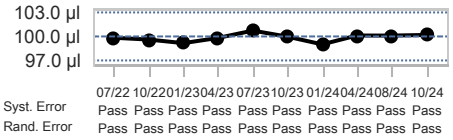
Test Volume (µl)	Weighings				
	1	2	3	4	5
20.0 µl	19.5 mg	19.7 mg	19.6 mg	19.5 mg	19.6 mg
100.0 µl	99.6 mg	100.0 mg	99.8 mg	100.5 mg	99.6 mg
200 µl	199.7 mg	199.6 mg	199.7 mg	199.4 mg	199.7 mg

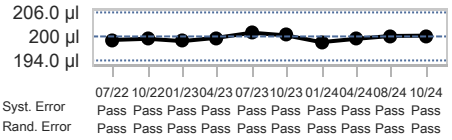
Results

Test Volume	Mean Volume	Systematic Error				Random Error				Expanded Uncertainty	Status
		Error	Limit	Error	Limit	Error	Limit	Error	Limit		
(µl)	(µl)	(µl)	(+/- µl)	(%)	(+/- %)	(µl)	(µl)	(CV%)	(%)	(µl)	
20.0	19.64	-0.36	**0.60**	-1.816	**3.0**	0.08	**0.60**	0.4273	**3.0**	0.30 µl (k=2.09)	**Passed**
100.0	100.2	0.19	**3.0**	0.1897	**3.0**	0.38	**3.0**	0.3745	**3.0**	1.1 µl (k=2.87)	**Passed**
200	200.20	0.20	**6.0**	0.09945	**3.0**	0.13	**6.0**	0.06532	**3.0**	0.48 µl (k=2)	**Passed**

As left History







Serial #

Certificate #

Authorized Signatory, Steven Murray
01.Oct.2024

METTLER TOLEDO
ACCREDITED LABORATORY
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