



CALIBRATION CERTIFICATE

Certificate Number: H00G83AVT7-0

Order Number: 222-766

RAININ
Pipetting 360°

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

Location 500 Jefferson St

Serial Number PU05581

Model THERMO FINNPIPETTE F2 20-200 YELLOW

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

Conditions Humidity 48.9 % | 48.9 % **Air Temperature** 19.4 °C | 19.4 °C
Air Pressure 1012.1 hPa | 1012.1 hPa **Water Temperature** 19.4 °C | 19.4 °C

Equipment Balance C132316237Next Cal. (30.Nov.2023)Readability (0.0001 g)

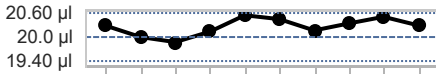
Climate Monitor Bar. pressure abs. air pressure (2112149)Next Cal. (01.Dec.2023) | Humidity (2112149)Next Cal. (01.Dec.2023) | Temp (2112149)Next Cal. (01.Dec.2023)

Z-Factor 1.0028 µl/mg
Evaporation 0 mg
Specification Type Custom
Pipette Tip Customer Supplied

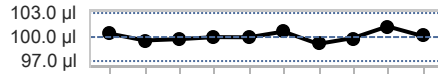
Test Volume (µl)	Weighings				
	1	2	3	4	5
20.0 µl	20.0 mg	20.3 mg	20.3 mg	20.3 mg	20.3 mg
100.0 µl	100.0 mg	99.8 mg	100.0 mg	99.7 mg	99.8 mg
200 µl	199.8 mg	199.5 mg	199.5 mg	199.3 mg	199.3 mg

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 (%)		
20.0	20.30	0.30	0.60	1.483	3.0	0.13	0.60	0.6629	3.0	0.40 µl (k=2.23)	Passed
100.0	100.14	0.14	3.0	0.1396	3.0	0.13	3.0	0.1344	3.0	0.40 µl (k=2.23)	Passed
200	200.04	0.04	6.0	0.01927	3.0	0.21	6.0	0.1027	3.0	0.60 µl (k=2.52)	Passed

As left History



Syst. Error 07/21 10/2101/2204/2207/2210/2201/2304/2307/23 10/23
Rand. Error Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass



Syst. Error 07/21 10/2101/2204/2207/2210/2201/2304/2307/23 10/23
Rand. Error Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass



Syst. Error 07/21 10/2101/2204/2207/2210/2201/2304/2307/23 10/23
Rand. Error Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass



Serial #



Certificate #

Authorized Signatory, Steven Murray

30.Oct.2023

METTLER TOLEDO
ACCREDITED LABORATORY

7500 Edgewater Drive
Oakland, CA 94621

This calibration covered by this certificate is in accordance with ISO 8655-7:2022 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