



# CALIBRATION CERTIFICATE

Certificate Number: H00G83AVLJ-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** PU05621

**Model** THERMO FINNPIPETTE F2 100-1000 BLUE  
**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

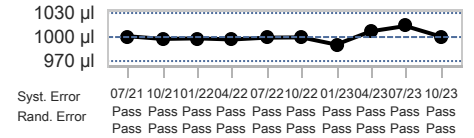
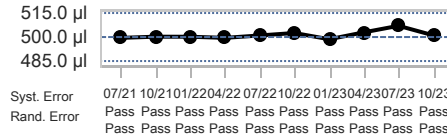
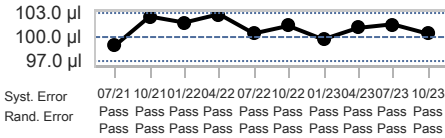
**Conditions** Humidity 49.0 % | 49.0 %      **Air Temperature** 19.2 °C | 19.2 °C  
**Air Pressure** 1012.1 hPa | 1012.1 hPa      **Water Temperature** 19.2 °C | 19.2 °C  
**Equipment** **Balance** C132316237Next Cal. (30.Nov.2023)Readability (0.0001 g)  
**Climate Monitor** Bar. pressure abs. air pressure (2112149)Next Cal. (01.Dec.2023) | Humidity (2112149)Next Cal. (01.Dec.2023) | Temp (2112149)Next Cal. (01.Dec.2023)

**Z-Factor** 1.0027 µl/mg  
**Evaporation** 0 mg  
**Specification Type** Custom  
**Pipette Tip** Customer Supplied

Test Volume (µl)	Weighings				
	1	2	3	4	5
100.0 µl	100.6 mg	100.0 mg	100.0 mg	100.0 mg	100.3 mg
500.0 µl	500.7 mg	500.0 mg	499.8 mg	499.3 mg	499.0 mg
1000 µl	997.9 mg	999.5 mg	997.8 mg	997.3 mg	998.2 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 (%)		
100.0	100.5	0.45	3.0	0.4505	3.0	0.27	3.0	0.2678	3.0	1.3 µl (k=2.05)	Passed
500.0	501.1	1.11	15	0.2219	3.0	0.66	15	0.1317	3.0	2.0 µl (k=2.23)	Passed
1000	1000.8	0.83	30	0.08350	3.0	0.83	30	0.08280	3.0	2.2 µl (k=2)	Passed

## As left History



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