



# CALIBRATION CERTIFICATE

Certificate Number: H00G83AU6K-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** PU08793

**Model** THERMO FINNPIPETTE F2 2-20 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 49.4 % | 49.4 %      **Air Temperature** 19.5 °C | 19.5 °C  
**Air Pressure** 1012.1 hPa | 1012.1 hPa      **Water Temperature** 19.5 °C | 19.5 °C

**Equipment** **Balance** C132316237Next Cal. (30.Nov.2023)Readability (0.00001 g)

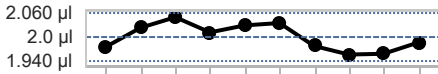
**Climate Monitor** Bar. pressure abs. air pressure (2112149)Next Cal. (01.Dec.2023) | Humidity (2112149)Next Cal. (01.Dec.2023) | Temp (2112149)Next Cal. (01.Dec.2023)

**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
2.0 µl	2.04 mg	2.02 mg	1.96 mg	1.93 mg	1.95 mg
10.0 µl	10.09 mg	10.15 mg	9.94 mg	10.13 mg	9.78 mg
20 µl	20.16 mg	20.14 mg	20.02 mg	20.54 mg	20.27 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 (%)		
2.0	1.99	-0.014	0.060	-0.7228	3.0	0.048	0.060	2.396	3.0	0.14 µl (k=2.65)	Passed
10.0	10.05	0.046	0.30	0.4605	3.0	0.157	0.30	1.561	3.0	0.45 µl (k=2.87)	Passed
20	20.28	0.283	0.60	1.413	3.0	0.197	0.60	0.9724	3.0	0.57 µl (k=2.87)	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