





CERTIFIED CALIBRATION & VALIDATION SERVICES

CALIBRATION CERTIFICATE

CERTIFICATE NO.: ML/MCH/1381/02/2023-24 Certificate Issue Date SUBJECT: CALIBRATION OF MICROPIPETTE Page 1 of 1 23/09/2023

1. Scope

Service Request Details 1.1

1.1.1 Service Request No.

1.1.2 Service Request Finalized On 1.1.3 Unique Lab Report Number (ULR No.)

1.1.4 Discipline / Group

1.1.5 Name & Address of Organization

Calibration

ML/1381/23-24

18/09/2023

CC266423000027466F Mechanical / Volume

NOBEL MICROPATH LABORATORY

G3, Ground floor, Infinity Tower, near Railway Station, Surat, Gujarat,

India, 395003.

1.2 Item Details

1.2.1 Condition of the Item

Working

.2	Nomenclature			
	Manufacturer	Thermo Scientific	Model No.	_
1	ID No.	TW02025	Sr.No.	TW02025
Ì	Range	20 to 200 μl	Туре	Analog (Variable)
1	Least Count	0.2 μl	Accuracy	
	Department		Location	

Item Received On 1.3

Dt. 20/09/2023

1.4 **Details of Test Equipments Used**

Instrument Name	UID No.	Certificate No.	Make	Due Date
Micro Balance	ML/DWB/009	NC-520	RADWAG	09/10/2023

1.4.1 Operating Procedures Used:

ML/SOP/M/WWV/003 ISO-TR 20461

1.4.2 Reference Standard:

Date of Calibration: 1.5

21-September-2023

Recommended Due Date of Calibration: 1.6

20-September-2024

OBSERVATIONS: 1.7

1.7.1 Laboratory Ambient:

Temperature: 25.4 °C (22.5±4.5)

Humidity: 51.3 %RH (50±10)

Pressure: 1001.2 hPa (950±100)

1.7.2

Measured Value Converted @27°0

2	Paramet	ter: Volume (µI)	Measured value convert	Weastred Value Converted @27 C	
	Sr. No.	Measured Value on Master (A)	Set Value on IUC (B)	Error (B - A)	(±) Expanded Uncertainty
	1	39.677	40.0	0.323	0.29 ய
	2	99.246	100.0	0.754	0.29 μl
1	3	179.331	180.0	0.669	0.86 ul

General Remarks:

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95.45% for a normal distribution.
 Uncertainty to be calculated at Max Error / Full Range of IUC
- Any anomalies/Discrepancies in the certificate should be brought to our notice within 30 days from the date of issue Certificate.

IUC* (Instrument Under Calibration)

- The Measurements are metrologically traceable to applicable national /International Standards. Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The results related to the item calibrated.

enior Calibration Engineer

AUTHORISED SIGNATORY

Technical Dire Manager

> B-209 & B-210 2nd Floor, "B'आम தூரிக்டுக்கூர்கோக iness Hub, Opp. Taluka Seva Sadan, Balitha. Vapi-396 195 Gujarat (India) Cell:098253 17475,Off. 097238-209769n-21, Amend. 05 Dt.. 01-01-2022 Website: www.matrixlab.ln, E-mail: info@matrixlab.co.in, matrixvapi@rediffmail.com

