



**MEASURE TECHNO LAB**  
 2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,  
 KOLKATA - 700120, W.B.



Phone: 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974,  
 LAB: 8100143376, E-mail: measuretechno@yahoo.co.in

**CALIBRATION CERTIFICATE OF MICRO PIPETTE**

CC - 2545

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LABORATION CERTIFICATE NO.: MTL / D / R10 / 06 - 24

ULR - CC254524000029525F

Service Request No.: MTL / 14G / 06 / 25 - 26

Issued to: M/s. Diagnostics,  
 190B, Rashbehari Avenue,  
 Kolkata - 700029.

Description & Identification of item to be Calibrated:  
 a) Name: Micro Pipette  
 b) Code No.: DIA / BIO / MP - 02  
 c) Sl. No.: N.S.  
 d) Make: Handypette  
 e) Model / Type: N.S.  
 f) Range: 100 µl to 1000 µl  
 g) Sensor: N.A.  
 h) Resolution: 10 µl  
 i) End User: Biochemistry  
 j) Accuracy: N.S.

k) Calibration done at: On Site /  In House  
 3 Date of receipt of item : 25-06-24  
 1.4 Physical Condition of DUC : OK  
 5 Date of calibration : 26-06-24  
 1.6 Recommended date of next calibration : 26-06-25  
 7 Date of Issue : 29-06-24

8 Environmental Conditions During Calibration:  
 Temperature: 20 °C ± 2 °C  
 Humidity: 30 % RH to 75 % RH  
 Pressure: 998.2 mbar

9 Method of Calibration: SOP / MASS / 02 ( As Per ISO : 8655 - 6 : 2022 )

10 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

Weights Cal. Certificate No. NC-210 (NSTAR, Ahmedabad) (Cal. Date: 16/05/22, Due Date: 15/05/25)  
 Digital Thermometer With Sensor Cal. Certificate No. MTL / TH / DTM / R01 / 09 - 23 (MTL, Barrackpore) (Cal. Date: 15/09/23, Due Date: 15/09/24)

11 Result:

Mechanical Calibration: (Mass & Volume)

Sl. No.	Parameter/ Range	Nominal Value µl	Mass of Water mg	Volume of Water at 20 °C µl	Error µl	Measurement Expanded Uncertainty ± µl
1.	Volume	100	101.4405	101.8463	1.8463	0.38
2.	100 µl to 1000	500	494.3455	496.3229	-3.6771	0.38
3.	µl	1000	990.8001	994.7633	-5.2367	0.39

Remarks: i) Cubical Expansion co-efficient of pipette material taken as 10<sup>-5</sup> µl / °k.  
 ii) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.  
 iii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.  
 iv) Calibrations are carried out without any adjustment or repair.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Opinions and Interpretations	✓	Accepted / Valid for use
Calibrated		Rejected / Out of use
Limited Use		

Calibrated by:

K. Barat  
 Calibration Engineer  
 Measure Techno Lab.  
 Kolkata



Approved by:

S. Pandey  
 Rev. No.: 04 Rev. Date: 01.04.22

Form No. - MTL/22/2006

Issue No.: 2 Issue Date: 10.11.06