


MEASURE TECHNO LAB 2, B.T. ROAD (JAYANTI CINEMA COMPLEX) BARRACKPORE, KOLKATA - 700120, W.B.	Form No. - MTL/22/2006	 <small>NABL ACCREDITED LABORATORY Certificate No. CC - 2543</small>
	CALIBRATION CERTIFICATE OF AUTO PIPETTE	
Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974 , LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in	CALIBRATION CERTIFICATE NO.: MTL / UWC / R06 / 02 - 22 ULR - CC254522000006595F Page: 1 of 1	

1.0 Service Request No.: MTL / 23A / 02 / 21 - 22

1.1 Issued to: M/s. Unique Wellness Care,
Plot No. 19, Street No. 5/12, Guru Nanak Dev Colony,
New Delhi - 110042.

1.2 Description & Identification of item to be Calibrated:

a) Name:	Auto Pipette	b) Code No.:	N.S.
c) Sl. No.:	MJ428214	d) Make:	Flexipet
e) Model / Type:	N.S.	f) Range:	100 µl to 1000 µl
g) Sensor:	N.A.	h) Resolution:	5 µl
i) End User:	Lab	j) Accuracy:	± 8.0 µl
k) Calibration done at:	On Site / √ In House		

1.3 Date of receipt of item : 21-02-24 **1.4 Physical Condition of DUC :** OK

1.5 Date of calibration : 23-02-24 **1.6 Recommended date of next calibration :** 23-02-25

1.7 Date of Issue : 25-02-24

1.8 Environmental Conditions During Calibration:

Temperature:	23 °C ± 2 °C
Humidity:	50 % RH ± 10 % RH
Pressure:	1010.3 mbar

1.9 Method of Calibration: SOP / MASS / 02 (As Per ISO : 8655 – 6 : 2002)

2.0 Traceability :

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

b) The following standards / Equipment have been used.

i) Data Acquisition Switch Unit Cal. Certificate No. JRPM - CCTR - ET - 2021 - 1227 (JRPM, Chennai)	(Cal. Date: 26/08/21, Due Date: 25/08/22)
ii) RTD (PT - 100) Cal. Certificate No. TL / 021 / 1091.2.1 (TEMPSENS, Udaipur)	(Cal. Date: 25/10/21, Due Date: 24/10/22)
iii) Weight Box (E1) Cal. Certificate No. WI / May / 19 / 010 (WEIGH INDIA, New Delhi)	(Cal. Date: 17/05/19, Due Date: 17/05/22)

2.1 Result :
Mechanical Calibration

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	97.1499	97.5472	-2.4528	0.40
2.	100 µl to 1000 µl	500	494.2419	496.2633	-3.7367	
3.		1000	990.8040	994.8564	-5.1436	

Remarks: i) Cubical Expansion co - efficient of pipette material taken as 10⁻⁵ 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.

DUC - Device Under Calibration N.S. - Not Specified N.A. - Not Applicable

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

Calibrated by:

Calibration Engineer
 K. Barat
 Testing Engineer
 Measure Techno Lab
 Kolkata

Checked / Approved by:

KOLKATA
 Quality & Technical Manager

S. Pandey