



MEASURE TECHNO LAB

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



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CALIBRATION CERTIFICATE OF MICRO PIPETTE

NABL ACCREDITED LABORATORY
Certificate No. CC - 2545

CALIBRATION CERTIFICATE NO.: MTL / SRL(DGP) / R02 / 08 - 22

ULR - CC254522000025274F

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1.0 Service Request No.: MTL / 05A / 09 / 22 - 23

1.1 Issued to: M/s. SRL Limited,
Ambedkar Sarani, City Centre, CA - 11,
Urvashi Phase II, City: Durgapur - 713216.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Micro Pipette	b) Code No.:	PT - 004
	c) Sl. No.:	YL183AF0027256	d) Make:	AG Life
	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:	N.S.
	k) Calibration done at:	On Site / <input checked="" type="checkbox"/> In House		

1.3 Date of receipt of item :	05-09-22	1.4 Physical Condition of DUC :	OK
1.5 Date of calibration :	05-09-22	1.6 Recommended date of next calibration :	05-09-23
1.7 Date of Issue :	06-09-22		

1.8 Environmental Conditions During Calibration:

Temperature:	23 °C ± 2 °C
Humidity:	50 % RH ± 10 % RH
Pressure:	1002 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) Digital Thermometer With Sensor Cal. Certificate No. MTL / TH / DTM / R01 / 09 - 21 (MTL, Barrackpore) (Cal. Date: 18/09/21, Due Date: 18/09/22)

ii) Weights Cal. Certificate No. NC-210 (NSTAR, Ahmedabad) (Cal. Date: 16/05/22, Due Date: 15/05/25)

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	95.0559	95.4361	-4.5639	0.39
2.	100 µl to 1000	500	491.9154	493.8831	-6.1169	
3.	µl	1000	989.0283	992.9844	-7.0156	

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	Accepted / Valid for use	Rejected / Out of use
Calibrated	<input checked="" type="checkbox"/>	
Limited Use		

Checked / Approved by:

 Quality & Technical Manager

Calibrated by:
 Calibration Engineer
 MTL
 06/09/22