



# TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE  
Precision is Our Destination.....



An NABL Accredited Calibration Laboratory  
A Constituent Board of Quality Council of India  
An ISO 9001 : 2015 Certified company

Calibration of Various Instruments & Testing Machines...

CC - 3125

Form No.: TMSCC/R/23

### CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.: 2023/06/493 Page 1 of 1  
 ISSUE DATE : 12-Jun-2023  
 ULR No.: CC312523000007376F

1.0 ISSUED TO: MSVP  
 College of Medicine  
 Sagore Dutta Hospital  
 578 B.T Road , Kolkata -700058

1.1 Service Request Form No. : SRF/2023/06/09/01  
 1.2 Service Request Date : 09-06-2023  
 1.3 Location: At Lab

Description identification of item to be calibrated:

1.4	i Name:	Micro Pipette	ii Make:	Microlit
	iii Model / Type No.:	--	iv S/L No.:	22108237
	v I.D.No.:	--	vi Job Code No.:	2023/06/493
	vii Range:	(100 to 1000) µl	viii Resolution:	1 µl
	ix Accuracy	As Per ISO 8655-6	x End User :	--

1.5 Full / Partial Calibration: Full Calibration

1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified.

1.7 Date of receipt of item: 9-Jun-2023 1.8 Date of calibration: 9-Jun-2023

1.9 Calibration due on: 8-Jun-2024 2.0 Frequency of calibration once in: 12 Months

2.1 Environmental condition during calibration  
 Temperature: 20.3 °C  
 Humidity: 53% RH

2.2 Basis of calibration: SOP/04/02

2.3 Traceability : Standards used for calibration are traceable to National Standards through NABL accredited Laboratory.

Name of the Instrument	Sl. No./ Id No.	Certificate No.	Lab Certificate No.	Calibrated On	Due On
Digital Weighing Balance	(TMSCC/FB/01) (Sl. No.- 14255716)	TSC/22-23/12101-25	CC - 2231	15-11-2022	15-11-2023
Digital Temperature Indicator with Sensor(RTD)	Sl. No.- 18K588073 (Sensor Sl. No.- 19102403)	TSC/22-23/12095-36		17-11-2022	17-11-2023

### CALIBRATION RESULTS

Recorded Temperature : 20.3°C

Sl. No.	Denomination Volume in µl	Observed Reading at Ref. Std. Balance in g (Avg. of five readings)	Density of De ionized Water in g/ml	Actual volume in µl	Error in µl	MPE in ± µl	Measurement Uncertainty in ± µl	Acceptance Criteria
1	100	0.09999	0.998183	100.16911	0.16911	0.8	1.95	Pass
2	300	0.29996	0.998183	300.50732	0.50732	4.0	1.95	Pass
3	500	0.49994	0.998183	500.84554	0.84554	4.0	1.95	Pass
4	700	0.69991	0.998183	701.18375	1.18375	8.0	1.95	Pass
5	1000	0.99987	0.998183	1001.69107	1.69107	8.0	1.95	Pass

Measurement Uncertainty at 95% confidence level where coverage factor, k=2

Remarks: The above DUC has been calibrated over its above range & the readings observed are tabulated above. The reference standard used is traceable to National Standard.

DUC: Device Under Calibration

Physical status of the Instrument : Ok

Calibrated By :  
  
 P. Dasmalakar  
 (Sr. Calibration Engineer)

Checked By :  
  
 J. Bhattacharjee  
 (Sr. Calibration Engineer)



Approved By :  
  
 C. Ghosh  
 (Technical Director)

END OF CERTIFICATE