



# 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.: 2023/06/492 Page 1 of 1

ISSUE DATE : 12-Jun-2023

ULR No.: CC312523000007374F

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: AI Lab

Description identification of item to be calibrated:

1.4	i	Name:	Micro Pipette	ii	Make :	Microлит
	iii	Model / Type No.:	--	iv	S/L No.:	22108276
	v	I.D.No.:	--	vi	Job Code No.:	2023/06/492
	vii	Range:	(10 to 100) $\mu$ l	viii	Resolution :	0.1 $\mu$ l
	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  $^{\circ}$ 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/EB/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	CC - 2231	17-11-2022	17-11-2023

## CALIBRATION RESULTS

Recorded Temperature : 20.3 $^{\circ}$ C

Sl. No.	Denomination Volume in $\mu$ l	Observed Reading at Ref. Std. Balance in g (Avg. of five readings)	Density of De ionized Water in g/ml	Actual volume in $\mu$ l	Error in $\mu$ l	MPE in $\pm$ $\mu$ l	Measurement Uncertainty in $\pm$ $\mu$ l	Acceptance Criteria
1	10	0.00998	0.998183	9.99416	-0.00584	0.12	1.93	Pass
2	30	0.02993	0.998183	29.98248	-0.01752	0.2	1.93	Pass
3	50	0.04988	0.998183	49.97080	-0.02920	0.5	1.93	Pass
4	70	0.06983	0.998183	69.95912	-0.04088	0.8	1.93	Pass
5	100	0.09976	0.998183	99.94159	-0.05841	0.8	1.93	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