



# TMSCC

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

An ISO 9001 : 2015 Certified company  
Calibration of Various Instruments & Testing Machines...



CC - 3125

Form No.: TMSCC/R/23

## CALIBRATION CERTIFICATE

CALIBRATION CERTIFICATE NO.:	2023/08/1646	Page 1 of 1
ISSUE DATE:	13-Sep-2023	
ULR No.:	CC312523000013653F	
1.0 ISSUED TO:	M/s.: Barasat Government Medical College & Hospital ICTC, Barasat, Banamalipur, North 24 Pgs, Pin-700124, West Bengal.	
1.1 Service Request Form No.:	SRF/2023/08/30/03	
1.2 Service Request Date:	30-08-2023	
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.:	22413188	
	v I.D.No.:	--	vi Job Code No.:	2023/08/1646	
	vii Range:	200 µl	viii Resolution:	--	
	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:	30-Aug-2023	1.8 Date of calibration:	30-Aug-2023
1.9 Calibration due on:	29-Aug-2024	2.0 Frequency of calibration once in:	12 Months
2.1 Environmental condition during calibration	Temperature:	20.3 °C	
	Humidity:	52 % 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)	(Indicator Sl. No.- 18K588073) (Sensor Sl. No.- 19102403)	TSC/22-23/12095-36	CC - 2231	17-11-2022	17-11-2023

### CALIBRATION RESULTS

Sl. No.	Denomination Volume in µl	Observed Reading at Ref. Std. Balance in g	Density of De ionized Water in g/ml	Actual volume in µl	Mean Volume in µl	Error in µl	MPE in ± µl	Measurement Uncertainty in ± µl	Acceptance Criteria
1	200	0.19997	0.998141	200.34705	200.29483	0.29483	1.6	0.033	Pass
2	200	0.19995	0.998141	200.31839					Pass
3	200	0.19998	0.998141	200.34745					Pass
4	200	0.19975	0.998141	200.11802					Pass
5	200	0.19997	0.998141	200.34324					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:  
  
J. Bhatnagarjee  
(Sr. Calibration Engineer)

Checked By :  
  
S. Chowdhury  
(Quality Manager)



Approved By  
  
C. Ghosh  
(Technical Director)

END OF CERTIFICATE