



# 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

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CALIBRATION CERTIFICATE NO.:	2023/08/1647
ISSUE DATE:	13-Sep-2023
ULR No.:	CC312523000013654F
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.:	23103134
	v	I.D.No.:	--	vi	Job Code No:	2023/08/1647
	vii	Range:	50 µl	viii	Resolution:	--
	ix	Accuracy	As Per ISO 8655-6	x	End User :	--

1.5 Full / Partial Calibration:	Full Calibration
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1.6 Applicable specification of item to be calibrated: Accuracy / permissible limit:	Not Specified.
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1.7 Date of receipt of item:	30-Aug-2023	1.8 Date of calibration:	30-Aug-2023
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1.9 Calibration due on:	29-Aug-2024	2.0 Frequency of calibration once in:	12 Months
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2.1 Environmental condition during calibration	Temperature:	20.3 °C
	Humidity:	52 % RH

2.2 Basis of calibration:	SOP/04/02
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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	50	0.04999	0.998141	50.08175	50.03995	0.03995	0.5	0.036	Pass
2	50	0.04992	0.998141	50.01698					Pass
3	50	0.04994	0.998141	50.03702					Pass
4	50	0.04993	0.998141	50.02700					Pass
5	50	0.04994	0.998141	50.03702					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