



# 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.:	2023/06/491	Page 1 of 1
ISSUE DATE :	12-Jun-2023	
ULR No.:	CC312523000007373F	
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.:	22108114		
	v I.D.No.:	--	vi Job Code No.:	2023/06/491		
	vii Range:	(10 to 100) µl	viii Resolution :	0.1 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/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°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	10	0.00999	0.998183	10.00608	0.00608	0.12	1.93	Pass
2	30	0.02996	0.998183	30.01824	0.01824	0.2	1.93	Pass
3	50	0.04994	0.998183	50.03041	0.03041	0.5	1.93	Pass
4	70	0.06992	0.998183	70.04257	0.04257	0.8	1.93	Pass
5	100	0.09988	0.998183	100.06081	0.06081	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