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.:		CC312523000007375F				
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				
1.4	Description identification of item to be calibrated:					
	i Name:	Micro Pipette	ii	Make:	Microlit	
	iii Model / Type No.:	--	iv	S/L No.:	22108173	
	v I.D.No.:	--	vi	Job Code No:	2023/06/492	
	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/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		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	Acceptence Criteria
1	100	0.09999	0.998183	100.17111	0.17111	0.8	1.95	Pass
2	300	0.29997	0.998183	300.51333	0.51333	4.0	1.95	Pass
3	500	0.49995	0.998183	500.85555	0.85555	4.0	1.95	Pass
4	700	0.69992	0.998183	701.19778	1.19778	8.0	1.95	Pass
5	1000	0.99989	0.998183	1001.71111	1.71111	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)

TESTING MACHINE SERVICE AND CALIBRATION CENTRE

Approved By :
C. Ghosh
(Technical Director)

END OF CERTIFICATE