



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.: 2024/06/890 Page 1 of 1

ISSUE DATE: 18-Jun-2024

ULR No.: CC312524000012396F

1.0 ISSUED TO
M/s.: Doctor Ghosh Super Speciality Clinic And Diagnostic Centre
1st Floor, 2/5/16, Arabinda Arena, Block B,
Khardaha, Kolkata - 700118.



1.1 Service Request Form No.: SRF/2024/06/17/02

1.2 Service Request Form No.: 17-06-2024

1.3 Location: At Lab

Description identification of item to be calibrated:

1.4	i	Name:	Micro Pipette	ii	Make:	Merilette
	iii	Model / Type No.:	--	iv	S/L No.:	Q1612021
	v	I.D No.:	DGLAB/MP/02	vi	Job Code No.:	2024/06/890
	vii	Range:	(100 to 1000) µl	viii	Resolution:	5 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: 17-Jun-2024 1.8 Date of calibration: 17-Jun-2024

1.9 Calibration due on: 16-Jun-2025 2.0 Frequency of calibration once in: 12 Months

2.1 Environmental condition during calibration
Temperature: 20.1 °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)	TC/23-24/4262-04	CC - 2230	09-11-2023	08-11-2024
Digital Temperature Indicator with Sensor(RTD)	(Indicator Sl. No. - 18K588073) (Sensor Id No. - TMSCC/RTD/01)	TSC/23-24/13010-4	CC - 2231	09-11-2023	08-11-2024

CALIBRATION RESULTS

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	100	0.09986	0.998183	100.04125	0.04125	0.8	0.039	Pass
2	300	0.29958	0.998183	300.12376	0.12376	4.0	0.039	Pass
3	500	0.49930	0.998183	500.20627	0.20627	4.0	0.039	Pass
4	700	0.69902	0.998183	700.28878	0.28878	8.0	0.039	Pass
5	1000	0.99859	0.998183	1000.41255	0.41255	8.0	0.039	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. Bhattacharjee
(Sr. Calibration Engineer)

Checked By :

S. Chowdhury
(Quality Manager)

Approved By :

C. Ghosh
(Technical Director)

END OF CERTIFICATE