



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.: 2024/06/894 Page 1 of 1

ISSUE DATE: 18-Jun-2024

ULR No.: CC312524000012400P

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



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

Service Request Date: 17-06-2024

Location: At Lab

Description identification of item to be calibrated:

i	Name:	Micro Pipette	ii	Make:	Micropet
iii	Model / Type No.:	--	iv	S/L No.:	--
v	ID No.:	DGLAB/MP/04	vi	Job Code No.:	2024/06/894
vii	Range:	(10 - 100) µl	viii	Resolution:	1 µl
ix	Accuracy	As Per ISO 8655-6	x	End User :	--

Full / Partial Calibration: Partial Calibration

Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified.

Date of receipt of item: 17-Jun-2024 Date of calibration: 17-Jun-2024

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

Environmental condition during calibration
Temperature: 20.3 °C
Humidity: 52 % RH

Basis of calibration: SOP/04/02

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	20	0.01999	0.998141	20.02251	0.02251	0.2	0.039	Pass
2	40	0.03997	0.998141	40.04501	0.04501	0.5	0.039	Pass
3	60	0.05996	0.998141	60.06752	0.06752	0.8	0.039	Pass
4	80	0.07994	0.998141	80.09003	0.09003	0.8	0.039	Pass
5	100	0.09993	0.998141	100.11253	0.11253	0.8	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