



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.:		2024/06/886	Page 1 of 1
ISSUE DATE:		18-Jun-2024	
ULR No.:		CC312524000012392P	
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 Date:	17-06-2024	
1.3	Location:	At Lab	

Description identification of item to be calibrated:						
1.4	i	Name:	Micro Pipette	ii	Make:	Micropet
	iii	Model / Type No.:	--	iv	S/L No.:	--
	v	I.D.No.:	DGLAB/MP/01	vi	Job Code No.:	2024/06/886
	vii	Range:	(5 - 50) µl	viii	Resolution:	1 µl
	ix	Accuracy	As Per ISO 8655-6	x	End User:	--

1.5	Full / Partial Calibration:	Partial 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:	17-Jun-2024	1.8	Date of calibration:	17-Jun-2024
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1.9	Calibration due on:	16-Jun-2025	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)	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	0.01998	0.998141	20.02050	0.02050	0.2	0.039	Pass
2	30	0.02997	0.998141	30.03075	0.03075	0.5	0.039	Pass
3	40	0.03997	0.998141	40.04101	0.04101	0.5	0.039	Pass
4	50	0.04996	0.998141	50.05126	0.05126	0.5	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