



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

Page 1 of 1

CALIBRATION CERTIFICATE NO.:	2024/07/732
ISSUE DATE :	17-Jul-2024
ULR No.:	CC312524000013631F
1.0 ISSUED TO:	M/s.: Vinayaka Clinic 9A, B.M Mandal Road, Santoshpur, Kolkata - 700075
1.1 Service Request Form No. :	SRF/2024/07/01/05
1.2 Service Request Form No. :	01-07-2024
1.3 Location:	At Lab



Description identification of item to be calibrated:

1.4	i Name:	Micro Pipette	ii Make:	Dragon Lab
	iii Model / Type No.:	--	iv S/L No.:	YE225AX0309644
	v I.D.No.:	--	vi Job Code No:	2024/07/732
	vii Range:	(20 to 200) µl	viii Resolution:	1 µl
	ix Accuracy	As Per ISO 8655-6	x End User :	--

1.5 Full / Partial Calibration:	Full 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:	1-Jul-2024	1.8 Date of calibration:	1-Jul-2024
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1.9 Calibration due on:	30-Jun-2025	2.0 Frequency of calibration once in:	12 Months
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2.1 Environmental condition during calibration	Temperature:	20.1 °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	0.998183	20.01406	0.01406	0.2	0.033	Pass
2	100	0.09989	0.998183	100.07031	0.07031	0.8	0.033	Pass
3	200	0.19978	0.998183	200.14061	0.14061	1.6	0.033	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