



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

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CALIBRATION CERTIFICATE NO.:	2023/11/1208
ISSUE DATE:	11-Nov-2023
ULR No.:	CC312523000016930P
1.0 ISSUED TO:	M/s. Divine Touch Medi-Clinic Colonel Chowmuhani, Near SBI TLA House, Branch - Agartala, Tripura(West) - 799001.
1.1 Service Request Form No. :	SRF/2023/11/10/04
1.2 Service Request Date :	10-11-2023
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.:	YE228AX0499547
	v I.D.No.:	--	vi Job Code No.:	2023/11/1208
	vii Range:	(5 - 50) µl	viii Resolution:	0.02 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:	10-Nov-2023	1.8 Date of calibration:	10-Nov-2023
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1.9 Calibration due on:	9-Nov-2024	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)	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	CC - 2231	17-11-2022	17-11-2023

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	20.02267	0.02267	0.2	0.027	Pass
2	30	0.02998	0.998141	30.03401	0.03401	0.5	0.027	Pass
3	40	0.03997	0.998141	40.04534	0.04534	0.5	0.027	Pass
4	50	0.04996	0.998141	50.05668	0.05668	0.5	0.027	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. Bhatta Chatterjee
(Sr. Calibration Engineer)

Checked By :

S. Chowdhury
(Quality Manager)



Approved By :

C. Ghosh
(Technical Director)

END OF CERTIFICATE