



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.:	2023/11/1212
ISSUE DATE :	11-Nov-2023
ULR No.:	CC312523000016934F
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



1.4	Description identification of item to be calibrated:				
i	Name:	Micro Pipette	ii	Make:	--
iii	Model / Type No.:	--	iv	S/L No.:	NE456361
v	I.D.No.:	--	vi	Job Code No:	2023/11/1212
vii	Range:	(100 - 1000) µl	viii	Resolution:	5 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:	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
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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	100	0.09980	0.998141	99.98863	-0.01137	0.8	0.027	Pass
2	300	0.29941	0.998141	299.96588	-0.03412	4.0	0.027	Pass
3	500	0.49901	0.998141	499.94313	-0.05687	4.0	0.027	Pass
4	700	0.69862	0.998141	699.92039	-0.07961	8.0	0.027	Pass
5	1000	0.99803	0.998141	999.88627	-0.11373	8.0	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. Bhattacharjee
(Sr. Calibration Engineer)

Checked By :

S. Chowdhury
(Quality Manager)

Approved By :

C. Ghosh
(Technical Director)



END OF CERTIFICATE