



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.:		2023/11/1204	Page 1 of 1
ISSUE DATE :		11-Nov-2023	
ULR No.:		CC312523000016926F	
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:	Finnpipette
	iii Model / Type No.:	Finnpipette F3	iv S/L No.:	NW06544
	v I.D.No.:	--	vi Job Code No:	2023/11/1204
	vii Range:	(10 - 100) µl	viii Resolution:	0.1 µl
	ix Accuracy	As Per ISO 8655-6	x End User :	--

1.5	Full / Partial Calibration:	Partial Calibration
1.6	Applicable specification of item to be calibrated: Accuracy / permissible limit:	Not Specified.

1.7	Date of receipt of item:	10-Nov-2023	1.8	Date of calibration:	10-Nov-2023
1.9	Calibration due on:	9-Nov-2024	2.0	Frequency of calibration once in:	12 Months

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	0.01998	0.998141	20.02027	0.02027	0.2	0.027	Pass
2	40	0.03997	0.998141	40.04053	0.04053	0.5	0.027	Pass
3	60	0.05995	0.998141	60.06080	0.06080	0.8	0.027	Pass
4	80	0.07993	0.998141	80.08107	0.08107	0.8	0.027	Pass
5	100	0.09992	0.998141	100.10134	0.10134	0.8	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