



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.: 2023/07/267 Page 1 of 1

ISSUE DATE: 13-Jul-2023

ULR No.: CC312523000009533F

1.0 ISSUED TO: M/s.: South Calcutta Diagnostic Center
570, Tentulberia Road, P.O.: Garla,
P.S.: Sonarpur, Kolkata - 700084



1.1 Service Request Form No.: SRF/2023/07/03/03

1.2 Service Request Date: 03-07-2023

1.3 Location: At Lab

Description identification of item to be calibrated:

1.4	i	Name:	Micro Pipette	ii	Make:	Accupipette
	iii	Model / Type No.:	-	iv	S/L No.:	V84413
	v	LD.No.:	-	vi	Job Code No:	2023/07/267
	vii	Range:	(100 to 1000) µl	viii	Resolution:	2 µl
	ix	Accuracy	As Per ISO 8655-6	x	End User :	-

1.5 Full / Partial Calibration: Full Calibration

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

1.7 Date of receipt of item: 3-Jul-2023 1.8 Date of calibration: 3-Jul-2023

1.9 Calibration due on: 2-Jul-2024 2.0 Frequency of calibration once in: 12 Months

2.1 Environmental condition during calibration
Temperature: 20.3°C
Humidity: 54% RH

2.2 Basis of calibration: SOP/04/02

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		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	0.09999	0.998183	100.17041	0.17041	0.8	1.92	Pass
2	300	0.29997	0.998183	300.51123	0.51123	5.0	1.92	Pass
3	500	0.49994	0.998183	500.85205	0.85205	5.0	1.92	Pass
4	700	0.69992	0.998183	701.19287	1.19287	8.0	1.92	Pass
5	1000	0.99988	0.998183	1001.70410	1.70410	8.0	1.92	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