



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.:		2023/07/265	Page 1 of 1
ISSUE DATE :		13-Jul-2023	
ULR No.:		CC31252300009531P	
1.0	ISSUED TO:	M/s.: South Calcutta Diagnostic Center 570, Tentulberia Road, P.O.: Garia, 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:	-
	iii	Model / Type No.:	-	iv	S/L No.:	OA486042
	v	I.D.No.:	-	vi	Job Code No:	2023/07/265
	vii	Range:	(5 to 50) µl	viii	Resolution:	0.5 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: 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)	TSC22-23/12101-25	CC - 2231	15-11-2022	15-11-2023
Digital Temperature Indicator with Sensor(RTD)	Sl. No. - 18K588073 (Sensor Sl. No. - 19102403)	TSC22-23/12095-36		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	20	0.02000	0.998183	20.03434	0.03434	0.2	1.93	Pass
2	30	0.03000	0.998183	30.05151	0.05151	0.2	1.93	Pass
3	40	0.04000	0.998183	40.06868	0.06868	0.5	1.93	Pass
4	50	0.04999	0.998183	50.08586	0.08586	0.5	1.93	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