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.:	**2024/07/1732**		Page 1 of 1
ISSUE DATE :	24-Jul-2024		
ULR No.:	**CC312524000014764P**		
1.0	ISSUED TO:	**M/s.: Mediscience Diagnostic Centre 11/5/A, Bidhan Park, Kolkata- 700124.**	
1.1	Service Request Form No. :	SRF/2024/07/22/01	
1.2	Service Request Date :	22-07-2024	
1.3	Location:	At Lab	

1.4 Description identification of item to be calibrated:

i	Name:	**Micro Pipette**	ii	Make:	FINNPIPETTE
iii	Model / Type No.:	--	iv	S/L No.:	**OW12247**
v	I.D.No.:	--	vi	Job Code No:	**2024/07/1732**
vii	Range:	(5 - 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:	22-Jul-2024	1.8	Date of calibration:	**22-Jul-2024**
1.9	Calibration due on:	**21-Jul-2025**	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			

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)	TC/23-24/4262-04	CC - 2230	09-11-2023	08-11-2024
Digital Temperature Indicator with Sensor(RTD)	(Indicator Sl. No.- 18K588073) (Sensor Id No.- TMSCC/RTD/01)	TSC/23-24/13010-4	CC - 2231	09-11-2023	08-11-2024

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	Acceptence Criteria
1	20	0.01997	0.998141	20.00948	0.00948	0.2	0.033	Pass
2	30	0.02996	0.998141	30.01422	0.01422	0.5	0.033	Pass
3	40	0.03994	0.998141	40.01897	0.01897	0.5	0.033	Pass
4	50	0.04993	0.998141	50.02371	0.02371	0.5	0.033	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)

TESTING MACHINE SERVICE AND CALIBRATION CENTRE

END OF CERTIFICATE

Office : Deshbandhu Lane, Barrackpore - 700122, Lab : "Anima Apartment", 1/1, Harisava Road, Barrackpore, Kolkata - 700122.
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