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.:		**2024/11/1282**	Page 1 of 1
ISSUE DATE :		9-Nov-2024	
ULR No.:		**CC312524000024138F**	
1.0	ISSUED TO:	**M/s.: Succes Diagnostic Centre** **8C, Mohan Lal Street, Shyambazar,** **(Near R.G. Kar Medical College), Kolkata - 700004.**	
1.1	Service Request Form No. :	SRF/2024/11/07/05	
1.2	Service Request Form No. :	07-11-2024	
1.3	Location:	At Lab	

1.4 Description identification of item to be calibrated:

i	Name:	**Micro Pipette**	**ii**	Make:	Biohit
iii	Model / Type No.:	--	**iv**	S/L No.:	**19036227**
v	ID No.:	--	**vi**	Job Code No:	**2024/11/1282**
vii	Range:	(100 to 1000) µl	**viii**	Resolution:	5 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:	7-Nov-2024	**1.8**	Date of calibration:	**7-Nov-2024**
1.9	Calibration due on:	**6-Nov-2025**	**2.0**	Frequency of calibration once in:	12 Months
2.1	Environmental condition during calibration	Temperature:	20.1 °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	100	0.09992	0.998183	100.09783	0.09783	0.8	0.039	Pass
2	300	0.29975	0.998183	300.29348	0.29348	4.0	0.039	Pass
3	500	0.49958	0.998183	500.48913	0.48913	4.0	0.039	Pass
4	700	0.69941	0.998183	700.68478	0.68478	8.0	0.039	Pass
5	1000	0.99916	0.998183	1000.97826	0.97826	8.0	0.039	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)

TESTING MACHINE SERVICE AND CALIBRATION CENTRE

Approved By :
C. Ghosh
(Technical Director)

END OF CERTIFICATE