



TMSCC

TESTING MACHINE SERVICE AND CALIBRATION CENTRE
Precision is Our Destination.....



CC - 3125

An NABL Accredited Calibration Laboratory
A Constituent Board of Quality Council of India

An ISO 9001 : 2015 Certified company

Calibration of Various Instruments & Testing Machines...

Form No.: TMSCC/R/23									
CALIBRATION CERTIFICATE									
CALIBRATION CERTIFICATE NO.:		2023/06/95						Page 1 of 1	
ISSUE DATE :		5-Jun-2023							
ULR No.:		CC312523000007012F							
1.0 ISSUED TO:		M/s.: Suraha Speciality Laboratory 167, Beharapara, H.C. Sarani, Sonarpur, 24.Parganas(S), Kolkata - 700150							
1.1 Service Request Form No. :		SRF/2023/06/02/02							
1.2 Service Request Date :		02-06-2023							
1.3 Location:		At Lab							
Description identification of item to be calibrated:									
1.4 i Name:		Micro Pipette			ii Make:		Dragon Lab		
iii Model / Type No.:		Fixed			iv S/L No.:		YE16CAA0124807		
v I.D.No.:		--			vi Job Code No:		2023/06/95		
vii Range:		500 µl			viii Resolution:		-		
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:		2-Jun-2023		1.8 Date of calibration:		2-Jun-2023			
1.9 Calibration due on:		1-Jun-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		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	100	0.09987	0.998141	100.05400	0.05400	0.8	1.95	Pass	
2	200	0.19974	0.998141	200.10800	0.10800	1.6	1.95	Pass	
3	300	0.29960	0.998141	300.16200	0.16200	4.0	1.95	Pass	
4	400	0.39947	0.998141	400.21600	0.21600	4.0	1.95	Pass	
5	500	0.49934	0.998141	500.27000	0.27000	4.0	1.95	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