



CERTIFICATE OF PERFORMANCE FOR MICRO PIPETTE

Certificate No.: TBS/CAL/GMC/09/22		Form No.: FM/22
		CALIBRATION CERTIFICATE OF: MICRO PIPETTE
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1.0 ISSUED TO: BIOCHEMISTRY DIAGNOSTIC LABORATORY  
GOVT. MEDICAL COLLEGE  
SRINAGAR AND ASSOCIATED SMHS HOSPITAL,  
(F- BLOCK) KARAN NAGAR,

1.1 Service Request / Order No.: -

1.2 Description Identification of item to be calibrated:			
i	Name:	MICRO PIPETTE	ii Code No.:
iii	Sl. No.:	HH63345	iv Make:
v	Model / Type No.:	FINNPIPETTE F2	vi Range:
vii	Sensor:	-	viii Resolution:
ix	Location:	Room No. 307	

1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit: ± 8.0 µl (As Per ISO 8655)

1.4 Date of receipt of item: 22-September-2022      1.5 Date of calibration: 22-September-2022

1.6 Recommended date for next calibration: 22-September-2022      1.7 Frequency of calibration: 12 months

1.8 Environmental condition during calibration	Temperature:	20°C ± 2°C
	Humidity:	50% RH ± 10% RH
	Atmospheric pressure:	1007.6 mbar
	Water Temperature:	20.2 °C

1.9 Basis of calibration:	S.O.P Number	S.O.P/Mass/08
	Standard Followed	ISO 8655:2002 & ISO/TR 20461
	Description of Method	Calibration of Micropipette using Digital Precision Balance up to 6g/220g, readability 0.001mg/0.01mg and distilled water of known density by Gravimetric method as per ISO 8655:2002 & ISO/TR 20461

2.0 Traceability : Standards Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025 Accredited Laboratory.

Sl. No.	Name of the standard instrument	Range	Resolution	Recommended date for next calibration
1	Weight Box	1 mg to 200 g	-	21-09-2023
2	Micro Balance	6.1 g	0.000001 g	21-09-2023
3	Digital Temperature & Humidity Meter	19°C to 25°C (for Temperature) & 15% RH to 80% RH (for Humidity)	0.1°C (for Temperature) & 0.1% RH (for Humidity)	21-09-2023
4	Digital Temperature Indicator	(-)50°C to 199.9°C	0.1°C	21-09-2023
5	Digital Pressure Gauge	0 bar to 1.5 bar (Abs)	0.0001 bar	21-09-2023

Nominal Range	Resolution	Nominal Value	Value determined by Electronic Balance in	Actual value determined after temp correction in	Error in	Expanded Uncertainty (±)	k factor
		(µl)	(mg)	(µl)	(µl)	(µl)	
100 µl	1 µl	100	102.011	102.306	2.306	0.012	2.00
To		500	502.048	503.498	3.498	0.059	2.00
1000 µl		1000	1002.031	1004.924	4.924	0.120	2.00

Note: i) Average of 10 readings had been taken in DUC/STD.  
 ii) The calibration certificate is issued by Electro Meter Corporation. This certificate refers only for the particular item submitted to calibrate.  
 iii) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.  
 iv) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.  
 v) "The Calibration result is only to be used for scientific and industrial purpose. This result can not be used for commercial purpose."  
 Measurement uncertainty at approx 95 % of confidence level & at a coverage factor : As Per Calibration Result

Remarks:	Statement of conformity not mentioned.		Physical status of the DUC:	OK
DUC- Device Under Calibration	F.S.-Full Scale			
Calibrated by: MOHAMAD ROUMAN	Date: 22-09-2022	Checked & Approved by: Mubashir Hass	Date: 22-09-2022	



END OF CERTIFICATE

The above mentioned instrument has been certified with accuracy guidelines traceable to National / International Standards  
 5th Floor, Arden Fair, Opp Benniganahalli Ring Road Flyover, Pai Layout, Near Tin Factory, Old Madras Road, Bangalore - 560016, Tel: +91 80 40545050 Fax: +91 80 40545055  
 Email: [info@tbs-india.com](mailto:info@tbs-india.com) Website: [www.tbs-india.com](http://www.tbs-india.com)