



Medical Engineering & Services
Things Beyond Thoughts

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CALIBRATION CERTIFICATE

Certificate Number	: MES24/07/150-01	ULR Number	: CC25432400000742F
Customer Details	: M/s. Lupin Diagnostics Limited – Laboratory, MG Tower, Old No - 7 & 8, New No - 19 Flowers Road, Purasaiwakkam, Kilpauk, Chennai - 600 084, Tamil Nadu.		
Date of Calibration	: 22/07/2024	SRF Number	: 150
Next Calibration Due	: 21/07/2025	Date of Issue	: 22/07/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: Micropipette	Serial No.	: 23103289
Make / Model	: Microlit	ID No.	: -
Equipment Condition	: Good	Resolution	: 0.02 µl
Range	: 2 - 20 µL	Location	: Laboratory

DETAILS OF MASTER EQUIPMENT USED

Nomenclature	: Electronic Precision Balance	Range	: 0 – 210 gm
Make	: Boeco Germany	Readability	: 0.01/0.1 mg
Model	: BBC-22	Serial No.	: 27104178
Certificate No.	: TVCSPL 23/10/1135-01	Calibration Due Date	: 02.10.2024

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
25.5	57	1007	25.3

CALIBRATION RESULTS

Sl. No.	Discipline : Mechanical			Parameter :		Volume	
	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	µl	µl	µl	± µl	µl	± µl	± µl
1	10	9.98	0.02	0.12	0.04	0.08	0.130
2	15	15.02	-0.02	0.40	0.05	0.20	0.136
3	20	20.05	-0.05	0.40	0.07	0.20	0.197

Notes: -

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced in partial or full without the written approval of the laboratory.
- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- Calibration done for the customer requested ranges.
- Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
- Calibration is carried out as per ISO 8655-6 Guidelines;MES work procedure: MES/WP/VOLUME.

Calibrated by


Prabir KP

(Calibration Engineer)



Authorized Signatory


Binoj Thomas

(Technical Manager)