



QUALITY CALIBRATION LABORATORY

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QCL/FF/25

CALIBRATION CERTIFICATE

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ULR No : CC339423200000123F	Certificate No	: QCL23MVL0127-05
Customer name & address: M/S.BIOLINE LABORATORY 6,7 & 15,Dolly Arcade,New Nagole, LB Nagar,Ranga Reddy District, Hyderabad - 500068, Telangana.	Issue Date	: 12-10-2023
	Discipline	: Mechanical-Volume
	SRF No	: L0127
	Date of Receipt	: 12-10-2023
	Calibration Date	: 12-10-2023
	Recommended Due Date	: 11-10-2024

Details of Unit Under Calibration(UUC)	
Description	: MICRO PIPETTE
Make	: Thermo Scientific
Range	: 10 to 100 µl
Resolution	: 0.2 µl
SL. No	: -----
ID.No	: BL/PP-05
Physical Condition	: Good

Environmental Condition	
Standard Temperature	: 25±4°C
Standard Relative Humidity	: 50±10%R.H

Details of the Standard Instrument Used for Calibration			
S NO	Instrument name	Validity	Traceability
1.	Analytical Weight Box(E2 class) Make: WEIGH INDIA, ID.No:QCL/M/WB-E2/01	16-01-2025	Cert. No:TYE/W/01/2023/0005
2.	Weighing Balance Make: RADWAG, ID.No : QCL/M/SMB/001	13-12-2023	Cert. No:TC/9537/2022
CALIBRATION METHOD : QCL/WI/MV-04 based on ISO 8655-6			

CALIBRATION RESULTS

Sl.No	Nominal volume (µl)	Standard Reading(µl)	Error(µl)	Expanded Uncertainty ±(Ue)(µl)
1	10.0	10.03	-0.03	0.50
2	25.0	25.08	-0.08	0.50
3	50.0	50.12	-0.12	0.50
4	75.0	75.17	-0.17	0.50
5	100.0	100.21	-0.21	0.50

Remarks:

- 1) The above UUC was calibrated at LAB.
- 2) This calibration certificate is applicable to the item calibrated only.
- 3) All calibrations are traceable to national measurement standards as per the traceability details Given in the certificate.
- 4) The calibration results reported are valid at the time of and under the conditions of measurement.
- 5) This certificate shall not be reproduced except in full, unless specific approval from Managing director, Quality Calibration Laboratory is obtained.
- 6) This calibration certificate is meant for scientific and industrial purpose only.
- 7) The NABL Symbol is used as per NABL Guidelines in NABL-133
- 8) The calibration interval is determined based on customer's requirements.
- 9) The Measurement Uncertainty is reported approximately at 95% confidence level with Coverage factor k=2
- 10) The volumetric readings given above are expressed at a reference temperature of 27°C.
- 11) To use this instrument at other temperatures use this formula $V_{27} = V_T (1 - \gamma (t-27))$.
Where, V_T = Volume measured at temperature t°C (ml), V_{27} = Volume measured at 27°C (ml)
 γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Arjun
Calibrated by



D Veera Swamy
Authorized Signatory
Technical Manager
D VEERA SWAMY

END OF CALIBRATION CERTIFICATE