



Cert No. CC-2543



Medical Engineering & Services

Things Beyond Thoughts

(An ISO/IEC 17025:2005 NABL Accredited Calibration Laboratory)

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CALIBRATION CERTIFICATE

Certificate Number	: MES/280121/C2	ULR Number	: CC254321000000051F
Customer Details	: Nucleus Healthcare Laboratory & ECG, Irikkur		
Date of Calibration	: 29/01/2021	Date of SRF	: 28/01/2021
Next Calibration Due	: 28/01/2022	Date of Issue	: 30/01/2021

DETAILS OF DEVICE UNDER CALIBRATION (DUC)

Nomenclature	: Micropipette	Serial No.	: -
Make / Model	: Lab Aid	ID No.	: -
Equipment Condition	: Good	Resolution	: 1 μ L
Range	: 10-100 μ L	Location	: -

DETAILS OF MASTER EQUIPMENT USED

Nomenclature	: Electronic Precision Balance	Range	: 0 – 210 gm
Make	: Boeco	Readability	: 0.01/0.1 mg
Model	: BBC-22	Serial No.	: 27104178
Certificate No.	: MES/210114/EB/C1	Calibration Due Date	: 14.01.2022

ENVIRONMENTAL CONDITIONS

Temperature($^{\circ}$ C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature($^{\circ}$ C)
29.2	42	1009	29.4

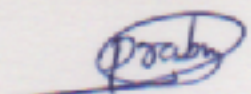
CALIBRATION RESULTS

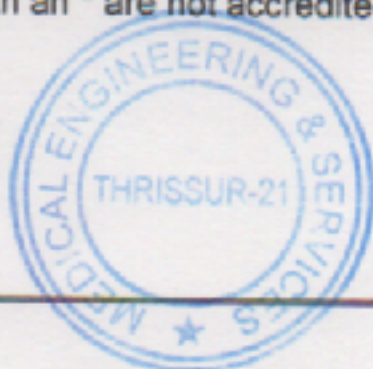
Discipline		Mechanical		Parameter		Volume	
Sl. No.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	μ l	μ l	μ l	$\pm \mu$ l	μ l	$\pm \mu$ l	$\pm \mu$ l
1	10	9.99	0.01	0.12	0.03	0.08	0.819
2	50	49.91	0.09	0.50	0.06	0.20	0.824
3	100	100.10	-0.10	0.80	0.07	0.30	0.827

Notes:-

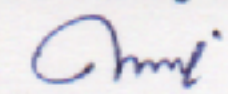
- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
- The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
- Results in this certificate shall not be reproduced except in full without the written approval of this centre.
- Next calibration due date is mentioned as per customer requirement.
- Calibration certificate issued for scientific or industrial purpose only.
- 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.
- The tests and /or Calibration marked with an * are not accredited by NABL

Calibrated by


Prabin K P
(Calibration Engineer)



Authorized Signatory


Binoj Thomas
(Technical Manager)