Cert No. CC-2543

Medical Engineering & Services

Things Beyond Thoughts

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

Abhcon Crown,X1/411/21,Ambadi Lane
Kokkalai,Thrissur-21. Ph: 0487 2420367
Email: mescalibration.tsr@gmail.com
Visit us @www.mescalibration.com

CALIBRATION CERTIFICATE

Certificate Number	: MES/210921/C3	ULR Number	: CC254321000000695F
Customer Details	: NATIONAL AYURVEDA RESEARCH INSTITUTE FOR PANCHAKARMA,CHERUTHURUTHY.		
Date of Calibration	: 21/09/2021	Date of SRF	: 21/09/2021
Next Calibration Due	: 20/09/2022	Date of Issue	: 21/09/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: MICROPIPETTE	Serial No.	: 4538802954
Make / Model	: BIOHIT/SARTORIUS PROLINE	ID No.	: NA
Equipment Condition	: GOOD	Resolution	: 5µL
Range	: 100-1000µL	Location	: BIO CHEMISTRY

DETAILS OF MASTER EQUIPMENT USED

Nomenclature	: Electronic Precision Balance	Range	: 0 – 220 gm
Make	: Boeco	Readability	: 0.01/0.1 mg
Model	: BBC-22	Serial No.	: 27104178
Certificate No.	: MES/17012020/EB/C1	Calibration Due Date	: 13.01.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
26.7	54	1011	26.9

CALIBRATION RESULTS

Discipline : Mechanical Parameter : Volume

Sl. No.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	µl	µl	µl	± µl	µl	± µl	± µl
1	100	100.40	-0.40	0.80	0.14	0.30	4.093
2	500	500.78	-0.78	4.00	0.24	1.50	4.112
3	1000	1001.67	-1.67	8.00	0.44	3.00	4.186

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
- Themeasurementuncertaintyisestimatedataconfidencelevelof95.45%withcoveragefactork=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 NABLS

Calibrated by
Prabin KR
(Calibration Engineer)

MEDICAL ENGINEERING & SERVICES THRISSUR-1

Authorized Signatory
Binoj Thomas
(Technical Manager)

Cert No. CC-2543

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CALIBRATION CERTIFICATE

Certificate Number	: MES/210921/C1	ULR Number	: CC254321000000693P
Customer Details	: NATIONAL AYURVEDA RESEARCH INSTITUTE FOR PANCHAKARMA,CHERUTHURUTHY.		
Date of Calibration	: **21/09/2021**	Date of SRF	: **21/09/2021**
Next Calibration Due	: **20/09/2022**	Date of Issue	: **21/09/2021**

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: MICROPIPETTE	Serial No.	: 8097846
Make / Model	: ERBA BIO HIT	ID No.	: NA
Equipment Condition	: GOOD	Resolution	: 0.5µL
Range	: 5-50µL	Location	: BIO CHEMISTRY

DETAILS OF MASTER EQUIPMENT USED

Nomenclature	: Electronic Precision Balance	Range	: 0 – 220 gm
Make	: Boeco	Readability	: 0.01/0.1 mg
Model	: BBC-22	Serial No.	: 27104178
Certificate No.	: MES/17012020/EB/C1	Calibration Due Date	: 13.01.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
26.7	54	1011	26.9

CALIBRATION RESULTS

Discipline : **Mechanical** Parameter : **Volume**

Sl. No.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	µl	µl	µl	± µl	µl	± µl	± µl
1	5*	4.90*	0.10*	0.13*	0.04*	0.08*	0.417*
2	25	24.99	0.01	0.50	0.11	0.20	0.460
3	50	50.36	-0.36	0.50	0.10	0.20	0.456

Notes:-

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Calibrated by
Prabin KP
(Calibration Engineer)

MEDICAL ENGINEERING & SERVICES THRISSUR-1

Authorized Signatory
Binoj Thomas
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CALIBRATION CERTIFICATE

Certificate Number	: MES/220921/C3	ULR Number	: CC254321000000702F
Customer Details	: NATIONAL AYURVEDA RESEARCH INSTITUTE FOR PANCHAKARMA,CHERUTHURUTHY.		
Date of Calibration	: 22/09/2021	Date of SRF	: 22/09/2021
Next Calibration Due	: 21/09/2022	Date of Issue	: 22/09/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: MICROPIPETTE	Serial No.	: V34735
Make / Model	: ACCUPIPET	ID No.	: NA
Equipment Condition	: GOOD	Resolution	: 0.2µL
Range	: 20-200µL	Location	: BIO CHEMISTRY

DETAILS OF MASTER EQUIPMENT USED

Nomenclature	: Electronic Precision Balance	Range	: 0 – 220 gm
Make	: Boeco	Readability	: 0.01/0.1 mg
Model	: BBC-22	Serial No.	: 27104178
Certificate No.	: MES/17012020/EB/C1	Calibration Due Date	: 13.01.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
27.3	55	1008	27.6

CALIBRATION RESULTS

Discipline : Mechanical Parameter : Volume

Sl. No.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	µl	µl	µl	± µl	µl	± µl	± µl
1	20	20.03	-0.03	0.20	0.11	0.10	0.319
2	100	100.36	-0.36	0.80	0.10	0.30	0.301
3	200	199.85	0.15	1.60	0.51	0.60	1.492

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
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