



Cert No. CC-2543



Medical Engineering & Services

Things Beyond Thoughts

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	: MES24/07/127-01	ULR Number	: CC25432400000631F
Customer Details	: Lupin Diagnostics Limited, Flat Unit No 102, Bharathiramam 29-6-7, Ramachandra Rao Road, Suryarao Pet, Vijayawada Andra pradesh – 520002.		
Date of Calibration	: 02/07/2024	SRF Number	: 127
Next Calibration Due	: 01/07/2025	Date of Issue	: 02/07/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: Micropipette	Serial No.	: 23205754
Make / Model	: Microlit	ID No.	: -
Equipment Condition	: Good	Resolution	: 0.02 μ l
Range	: 2 - 20 μ l	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
	μ l	μ l	μ l	$\pm \mu$ l	μ l	$\pm \mu$ l	$\pm \mu$ l
1	10	9.95	0.05	0.12	0.05	0.08	0.137
2	15	15.05	-0.05	0.40	0.06	0.20	0.165
3	20	20.05	-0.05	0.40	0.07	0.20	0.194

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


Prabin KP

(Calibration Engineer)



Authorized Signatory


Binoj Thomas

(Technical Manager)



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CALIBRATION CERTIFICATE

Certificate Number : MES24/07/127-02 ULR Number : CC254324000000632F
Customer Details : Lupin Diagnostics Limited, Flat Unit No 102, Bharathiramam 29-6-7, Ramachandra Rao Road, Suryarao Pet, Vijayawada Andra pradesh – 520002.
Date of Calibration : 02/07/2024 SRF Number : 127
Next Calibration Due : 01/07/2025 Date of Issue : 02/07/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette Serial No. : 23206977
Make / Model : Microlit ID No. : -
Equipment Condition : Good Resolution : 0.2 µl
Range : 20 - 200 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)
25.7	56	1007	25.5

CALIBRATION RESULTS

Sl. No.	Discipline : Set Volume µl	Mechanical		Parameter		Volume	
		Standard Value µl	Systematic Error µl	Acceptable Systematic Error ± µl	Random Error µl	Acceptable Random Error ± µl	Expanded Uncertainty ± µl
1	20	19.97	0.03	0.40	0.02	0.20	0.171
2	100	100.07	-0.07	1.40	0.21	0.60	0.588
3	200	200.36	-0.36	12.00	0.35	4.00	1.038

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CALIBRATION CERTIFICATE

Certificate Number	: MES24/07/127-03	ULR Number	: CC25432400000633F
Customer Details	: Lupin Diagnostics Limited, FLat Unit No 102, Bharathiramam 29-6-7, Ramachandra Rao Road, Suryarao Pet, Vijayawada Andra pradesh - 520002		
Date of Calibration	: 02/07/2024	SRF Number	: 127
Next Calibration Due	: 01/07/2025	Date of Issue	: 02/07/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: Micropipette	Serial No.	: 23207771
Make / Model	: Microlit	ID No.	: -
Equipment Condition	: Good	Resolution	: 0.2 µl
Range	: 100 - 1000 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)
25.9	57	1007	25.6

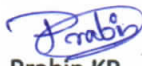
CALIBRATION RESULTS

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	100	99.95	0.05	1.40	0.36	0.60	1.046
2	500	501.63	-1.63	12.00	0.37	4.00	1.085
3	1000	1003.78	-3.78	12.00	0.38	4.00	1.122

Notes: -

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- Calibration is carried out as per ISO 8655-6 Guidelines;MES work procedure: MES/WP/VOLUME.

Calibrated by



Prabin KP

(Calibration Engineer)



Authorized Signatory



Binoj Thomas

(Technical Manager)



CALIBRATION CERTIFICATE

Certificate Number	: MES/240702/C2
Customer Details	: Lupin Diagnostics Limited, Flat Unit No 102, Bharathiramam 29-6-7, Ramachandra Rao Road, Suryarao Pet, Vijayawada Andhra pradesh – 520002.
Date of Calibration	: 02/07/2024
Next Calibration Due	: 01/07/2025
Date of Issue	: 02/07/2024

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: Micropipette	Serial No.	: 2305366
Make & Model	: Microlit	ID No.	: -
Equipment Condition	: Good	Resolution	: 0.2 µl
Range	: 0.2 - 2 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.	: TVSPL 23/10/1135-01	Calibration Due Date	: 02.10.2024

ENVIRONMENTAL CONDITIONS


Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
26.5	56	1007	26.3

CALIBRATION RESULTS

Discipline	Mechanical	Parameter	Volume
Sl no	Set volume µl	Actual volume µl	Expanded uncertainty ± µl
1	1	0.97	± 0.031
2	1.5	1.52	± 0.079
3	2	2.06	± 0.141

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 estimate data 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.
- Calibration is carried out as per ISO 8655-6 Guidelines;MES work procedure: MES/WP/VOLUME.

Calibrated by

 Prabin KP
 (Calibration Engineer)



Authorized Signatory

 Binoj Thomas
 (Technical Manager)



CALIBRATION CERTIFICATE

Certificate Number : MES/240702/C1
 Customer Details : **Lupin Diagnostics Limited, Flat Unit No 102, Bharathiramam 29-6-7, Ramachandra Rao Road, Suryarao Pet, Vijayawada Andra pradesh – 520002.**
 Date of Calibration : **02/07/2024**
 Next Calibration Due : **01/07/2025** Date of Issue : **02/07/2024**

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette Serial No. : 22305386
 Make & Model : Microlit ID No. : -
 Equipment Condition : Good Resolution : 0.2 µl
 Range : 0.2 - 2 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. : TVSPL 23/10/1135-01 Calibration Due Date : 02.10.2024

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
26.3	57	1007	26.1

CALIBRATION RESULTS

SI no	Discipline	Mechanical		Parameter	Volume
		Set volume	Actual volume		
		µl	µl		± µl
1		1	0.98		± 0.058
2		1.5	1.52		± 0.074
3		2	2.04		± 0.135

Notes: -

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