



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: medengserv@gmail.com
Visit us @www.mescalibration.com

CALIBRATION CERTIFICATE

Certificate Number	: MES/290321/C3	ULR Number	: CC254321000000203F
Customer Details	: MANJERI CLINICAL LABORATORY&IDEAL X-RAYS,MAANU SCAN CENTRE,MANJERI,MALAPPURAM.		
Date of Calibration	: 29/03/2021	Date of SRF	: 29/03/2021
Next Calibration Due	: 28/03/2022	Date of Issue	: 29/03/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: MICROPIPETTE	Serial No.	: NA
Make / Model	: NA	ID No.	: MCL/PPT/3/BIO
Equipment Condition	: GOOD	Resolution	: 0µL
Range	: 10µL	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	SerialNo.	: 27104178
CertificateNo.	: MES/17012020/EB/C1	CalibrationDueDate	: 14.01.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	RelativeHumidity (%)	AtmosphericPressure (mbar)	WaterTemperature(°C)
31.5	55	1011	31.6

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	10	9.61	0.05	0.12	0.02	0.08	0.148

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.
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- 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.

Calibrated by
Prabin KP
(Calibration Engineer)





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CALIBRATION CERTIFICATE

Certificate Number	: MES/290321/C2	ULR Number	: CC254321000000201F
Customer Details	: MANJERI CLINICAL LABORATORY&IDEAL X-RAYS, MAANU SCAN CENTRE, MANJERI, MALAPPURAM.		
Date of Calibration	: 29/03/2021	Date of SRF	: 29/03/2021
Next Calibration Due	: 28/03/2022	Date of Issue	: 29/03/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: MICROPIPETTE	Serial No.	: 19113289
Make / Model	: MICROLIT	ID No.	: MCL/PPT/2/BIO
Equipment Condition	: GOOD	Resolution	: 0µL
Range	: 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	SerialNo.	: 27104178
CertificateNo.	: MES/17012020/EB/C1	CalibrationDueDate	: 14.01.2022

ENVIRONMENTAL CONDITIONS


Temperature(°C)	RelativeHumidity (%)	AtmosphericPressure (mbar)	WaterTemperature(°C)
31.5	55	1011	31.6

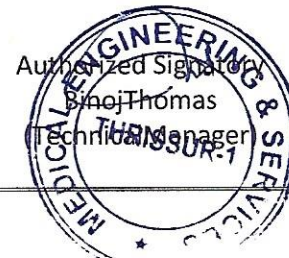
CALIBRATION RESULTS

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	1000	1002.21	-2.21	8.00	0.16	3.00	0.598

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Calibrated by

Prabir K P
(Calibration Engineer)





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CALIBRATION CERTIFICATE

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Customer Details	: MANJERI CLINICAL LABORATORY&IDEAL X-RAYS, MAANU SCAN CENTRE, MANJERI, MALAPPURAM.		
Date of Calibration	: 29/03/2021	Date of SRF	: 29/03/2021
Next Calibration Due	: 28/03/2022	Date of Issue	: 29/03/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: MICROPIPETTE	Serial No.	: NA
Make / Model	: NA	ID No.	: MCL/PPT/1/BIO
Equipment Condition	: GOOD	Resolution	: 1µL
Range	: 10-100µL	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	SerialNo.	: 27104178
CertificateNo.	: MES/17012020/EB/C1	CalibrationDueDate	: 14.01.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	RelativeHumidity (%)	AtmosphericPressure (mbar)	WaterTemperature(°C)
31.5	55	1011	31.6

CALIBRATION RESULTS

Sl. No.	Set Volume	Mechanical		Parameter		Volume	
		Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	µl	µl	µl	± µl	µl	± µl	± µl
1	10	9.60	0.09	0.12	0.03	0.08	0.177
2	50	49.88	0.12	0.50	0.04	0.20	0.180
3	100	100.09	-0.09	0.80	0.04	0.30	0.182

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Calibrated by
Prabin KP
(Calibration Engineer)





CALIBRATION CERTIFICATE

Certificate Number	: MES/191121/C2		
Customer Details	: MANJERI CLINICAL LABORATORY&IDEAL X-RAYS(MAANU SCAN CENTRE),MANJERI,MALAPPURAM.		
Date of Calibration	: 19/11/2021	Date of Issue	: 19/11/2021
Next Calibration Due	: 18/11/2022		

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: Micropipette	Serial No.	: 050153326
Make / Model	: HANDYPETTE	ID No.	: -
Equipment Condition	: Good	Resolution	: 0 µl
Range	: 5 µl	Location	: BIO CHEMISTRY

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.	: TVSPL21/10/227-01	Calibration Due Date	: 05.10.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
27.5	55	1004	29.5

CALIBRATION RESULTS

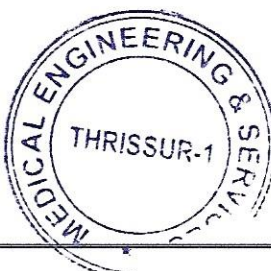
Discipline	: Mechanical	Parameter	: Volume
Sl no	Set volume µl	Actual volume µl	Expanded uncertainty ± µl
1	5	4.87	± 0.19

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)



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CALIBRATION CERTIFICATE

Certificate Number : MES/2304231/C3 ULR Number : CC254321000000237F

Customer Details : MANJERI CLINICAL LABORATORY, IDEAL X-RAYS (MAANU SCAN CENTRE), MANJERI, MALAPPURAM.

Date of Calibration : 23/04/2021 Date of SRF : 23/04/2021

Next Calibration Due : 22/04/2022 Date of Issue : 23/04/2021

DETAILS OF DEVICE UNDER CALIBRATION (DUC)

Nomenclature : MICROPIPETTE Serial No. : NA
Make / Model : LAB AID ID No. : NA
Equipment Condition : GOOD Resolution : 0 μ L
Range : 10 μ L Location : LAB

DETAILS OF MASTER EQUIPMENT USED

Nomenclature : Electronic Precision Balance Range : 0 – 220 gm
Make : Boeco Readability : 0.01/0.1 mg
Model : BBC-22 SerialNo. : 27104178
CertificateNo. : MES/17012020/EB/C1 CalibrationDueDate : 14.01.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
29.5	56	1009	29.9

CALIBRATION RESULTS

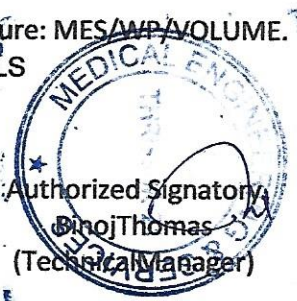
Discipline		Mechanical		Parameter		Volume	
Sl. No.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	μ l	μ l	μ l	$\pm \mu$ l	μ l	$\pm \mu$ l	$\pm \mu$ l
1	10	9.60	0.09	0.12	0.02	0.08	0.136

Notes:-

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Calibrated by
Prabin P
(Calibration Engineer)

Authorized Signatory
Binoy Thomas
(Technical Manager)





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CALIBRATION CERTIFICATE

Certificate Number	: MES/2304231/C1	ULR Number	: CC254321000000235F
Customer Details	: MANJERI CLINICAL LABORATORY, IDEAL X-RAYS(MAANU SCAN CENTRE), MANJERI, MALAPPURAM.		
Date of Calibration	: 23/04/2021	Date of SRF	: 23/04/2021
Next Calibration Due	: 22/04/2022	Date of Issue	: 23/04/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature	: MICROPIPETTE	Serial No.	: PW12509
Make / Model	: AGAPPE/MISPA I SERIES	ID No.	: NA
Equipment Condition	: GOOD	Resolution	: 0.2µL
Range	: 20-200µL	Location	: LAB

DETAILS OF MASTER EQUIPMENT USED

Nomenclature	: Electronic Precision Balance	Range	: 0 – 220 gm
Make	: Boeco	Readability	: 0.01/0.1 mg
Model	: BBC-22	SerialNo.	: 27104178
CertificateNo.	: MES/17012020/EB/C1	CalibrationDueDate	: 14.01.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	RelativeHumidity (%)	AtmosphericPressure (mbar)	WaterTemperature(°C)
29.5	56	1009	29.9

CALIBRATION RESULTS

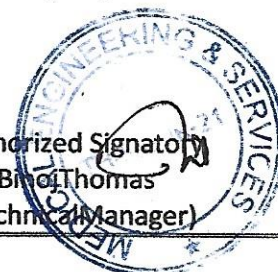
Discipline		Mechanical		Parameter		Volume	
Sl. No.	Set Volume	Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty
	µl	µl	µl	± µl	µl	± µl	± µl
1	20	19.66	0.12	0.20	0.02	0.10	0.167
2	100	100.18	-0.18	0.80	0.02	0.30	0.170
3	200	198.86	1.14	1.60	0.10	0.60	0.290

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Calibrated by
Prabin K P
(Calibration Engineer)

Authorized Signatory
Bino Thomas
(Technical Manager)





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CALIBRATION CERTIFICATE

Certificate Number	: MES/151121/C2	ULR Number	: CC25432100000855F
Customer Details	: MANJERI CLINICAL LABORATORY & IDEAL X-RAYS (MAANU SCAN CENTRE) MANJERI, MALAPPURAM.		
Date of Calibration	: 15/11/2021	Date of SRF	: 15/11/2021
Next Calibration Due	: 14/11/2022	Date of Issue	: 15/11/2021

DETAILS OF DEVICE UNDER CALIBRATION (DUC)

Nomenclature	: Micropipette	Serial No.	: NA
Make / Model	: MICROPET	ID No.	: -
Equipment Condition	: Good	Resolution	: 1 µL
Range	: 10-100 µL	Location	: BIO CHEMISTRY

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.	: TVSPL21/10/227-01	Calibration Due Date	: 05.10.2022

ENVIRONMENTAL CONDITIONS

Temperature (°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature (°C)
27.5	56	1004	27.6

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	10	9.95	0.05	0.12	0.09	0.08	0.838
2	50	50.11	-0.11	0.50	0.08	0.20	0.834
3	100	100.29	-0.29	0.80	0.10	0.30	0.839

Notes: -

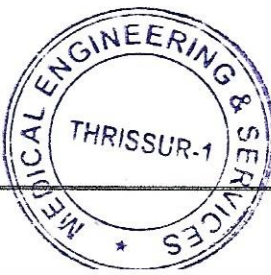
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Calibrated by

Prabin KP
(Calibration Engineer)

Authorized Signatory

Binoj Thomas
(Technical Manager)





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CALIBRATION CERTIFICATE

Certificate Number	: MES/151121/C3	ULR Number	: CC25432100000856F
Customer Details	: MANJERI CLINICAL LABORATORY & IDEAL X-RAYS (MAANU SCAN CENTRE) MANJERI, MALAPPURAM.		
Date of Calibration	: 15/11/2021	Date of SRF	: 15/11/2021
Next Calibration Due	: 14/11/2022	Date of Issue	: 15/11/2021

DETAILS OF DEVICE UNDER CALIBRATION (DUC)

Nomenclature	: Micropipette	Serial No.	: YE5F592610
Make / Model	: ERBA	ID No.	: -
Equipment Condition	: Good	Resolution	: 5 µL
Range	: 100-1000 µL	Location	: BIO CHEMISTRY

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.	: TVSPL21/10/227-01	Calibration Due Date	: 05.10.2022

ENVIRONMENTAL CONDITIONS

Temperature (°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature (°C)
27.5	56	1004	27.6

CALIBRATION RESULTS

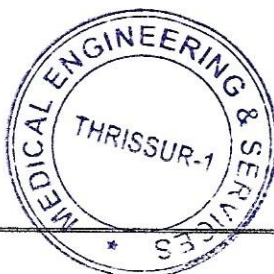
Sl. No.	Set Volume µl	Discipline : Mechanical		Parameter :		Volume	
		Standard Value µl	Systematic Error µl	Acceptable Systematic Error ± µl	Random Error µl	Acceptable Random Error ± µl	Expanded Uncertainty ± µl
1	100	100.25	-0.25	0.80	0.09	0.30	4.086
2	500	500.88	-0.88	0.50	0.34	0.20	4.141
3	1000	1002.45	-2.45	8.00	0.30	3.00	4.134

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