

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 No.	MES/21-22/GOWOCHMA/CEN/J03	Date of Issue Calibration Done On Calibration Due On	: :	06/08/2021 03/08/2021 02/08/2022
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Customer Name GOVERNMENT WOMEN & CHILDREN'S HOSPITAL, MATTANCHERRY, ERNAKULAM.

DETAILS OF DEVICE UNDER CALIBRATION				
Equipment Name	Make / Model	Serial No.	Asset ID	Location
Centrifuge	Remi		ICTC/134/KSAC.S/0 3	ICTC

	DE	TAILS OF MASTER I	EQUIPMENT	T USED	
SI No.	Master Equipment	Make / Model	Serial No.	Reference ID	Cal. Due
1	Digital Tachometer	Equinox / EQ-801B	S916577	ACS/20-21/I02671- 01	24/09/2021
2	Digital Thermo Hygrometer The instruments used for cali	CIH	20191602	ACS/JUN/21/I – 32 -01	17/06/2022

Environmental Conditions Temperature	27°C	Relative Humidity	55 %
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The second second second	PERFORMANCE DATA
Result	Obtained RPM
Result	917 rpm

Calibration Status	Pass	1	Fail	

Calibrated By

nahesh

Mahesh MC (Service Engineer)

Binoj Thomas (Quality Manager)

Approved By



Things Beyond Thoughts ISO 9001-2015 certified company

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: LAB

: 0-210 gm





CALIBRATION CERTIFICATE

Certificate Number : MES/210811/C1

Customer Details : WOMEN & CHILDREN'S HOSPITAL, MATTANCHERY.

Date of Calibration 11/08/2021

Nomenclature

Next Calibration Due : 10/08/2022

Date of Issue : 11/08/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Micropipette Serial No. : NA

Make / Model MICROLUX

ID No. **Equipment Condition** 68070020 Good Resolution Range 0μ L : 500µL

Location **DETAILS OF MASTER EQUIPMENT USED**

Nomenclature **Electronic Precision Balance** Make Range

Boeco Model BBC-22

0.01/0.1 mg SerialNo. Certificate No. MES/17012020/EB/C1 27104178 Calibration Due Date 14.01.2022

ENVIRONMENTAL CONDITIONS

Readability

	Temperature(°C)			
	remperature(°C)	Relative Humidity (%)		West -
	27.1	F.C.	(mbar)	Water Temperature(°C)
		56	1024	27.2
	Discipline ·	CALIBRA	TION RESULTS	27.2
	Discipline :	Mechanical	Parameter	
SI	no Se	et volume	, drameter	: Volume

Discipline		THE THE SOLIS	
- I I	: Mechanical	Parameter	
Si no	Set volume		: Volume
	u \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Actual volume	Expanded uncertanity
1	500	μl	SACIED & CONTRACTOR OF THE PROPERTY OF THE PRO
Notes:-	300	501.30	±μl
Notes:-		001.00	± 1.183

- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration
- 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.
- Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.

Calibrated by

Prabin KP (Calibration Engineer) **Authorized Signatory**

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		CALIDIATION	CERTIFICATE		
Certificate Number	: M	ES/210811/C2			
Customer Details	: W	OMEN & CHILDREN'S HOSPI	TAL, MATTANCHERY.		
Date of Calibration		/08/2021	*		
Next Calibration Due	: 10	/08/2022	Date of Issue	: 11/08	3/2021
		DETAILS OF DEVICE UNI	DER CALIBRATION(DUC)		
Nomenclature	: M	icropipette	Serial No.	: LW00	026
Make / Model	: T	HERMO SCIENTIFIC	ID No.	: 68070	0024
Equipment Condition	n : G	bood	Resolution	: 0.1µL	
Range	: 5-	50μL	Location	: LAB	
	-/	DETAILS OF MASTER	R EQUIPMENT USED		
Nomenclature	: Ele	ctronic Precision Balance	Range	: 0-2	210 gm
Make	: Bo	eco	Readability		/0.1 mg
Model	: BB	C-22	SerialNo.		04178
Certificate No.	: ME	S/17012020/EB/C1	Calibration Due Date		1.2022
		ENVIRONMENT			
Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Wate	r Temperature(°C)
27.1		56	1024		27.2
		CALIBRATIO	N RESULTS		
Discipline	: \	Mechanical	Parameter	:Y	Volume
SI no	Set	volume	Actual volume	Ехра	nded uncertanity
1	- 4	μ	μl		±μl

3 Notes:-

1

2

The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements

4.90

25.01

50.22

- Themeasurementuncertaintyisestimatedataconfidencelevelof95.45%withcoveragefactork=2.
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Calibrated by

5

25

50

Prabin KP (Calibration Engineer)

6

Authorized Signatory

± 0.113

± 0.121

± 0.343

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CALIBRATION CERTIFICATE

Certificate Number : MES/210811/C3

Customer Details : WOMEN & CHILDREN'S HOSPITAL, MATTANCHERY.

Date of Calibration

. 11/08/2021

Next Calibration

Make / Model

Due

Model

Certificate No.

: 10/08/2022

Date of Issue

: 11/08/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette

: JAYNA

Equipment Condition : Good

Range : 10-100µL Serial No.

Resolution : 1 µL

Location

ID No.

: ICTC LAB

DETAILS OF MASTER EQUIPMENT USED

Nomenclature Make

Electronic Precision Balance

Boeco

BBC-22

MES/17012020/EB/C1

Range

Readability

: 0.01/0.1 mg

SerialNo. Calibration Due Date : 27104178 : 14.01.2022

: 0-210 gm

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
27.1	56	1024	27.2

CALIBRATION RESULTS				
Discipline	: Mechanical	Parameter	: Volume	
SI no	Set volume	Actual volume	Expanded uncertanity	
31110	μΙ	[] [] [] [] [] [] [] [] [] [] [] [] [] [±μl	
1	10	9.79	± 0.836	
2	50	50.16	± 0.837	
3	100	100.48	+ 0.851	

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

Calibrated by

Prabin KP (Calibration Engineer) **Authorized Signatory**



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CALIBRATION CERTIFICATE

Certificate Number : MES/210811/C4

Customer Details : WOMEN & CHILDREN'S HOSPITAL, MATTANCHERY.

Date of Calibration 11/08/2021

Next Calibration

10/08/2022 Due

Date of Issue

: 11/08/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette Make / Model

: MICROLUX

Equipment Condition : Good Range

: 10-100µL

Serial No.

ID No.

Resolution : 1µL

Location LAB

DETAILS OF MASTER EQUIPMENT USED

Nomenclature **Electronic Precision Balance** Make

Boeco BBC-22

MES/17012020/EB/C1

Range

Readability

: 0-210 gm : 0.01/0.1 mg

SerialNo. Calibration Due Date : 27104178 : 14.01.2022

ENVIRONMENTAL CONDITIONS

mbar)	Water Temperature(°C)
1024	27.2
	1024

CALIDRATION RESULTS					
Discipline : Mechanical		Parameter	: Volume		
SI no	Set volume	Actual volume μl	Expanded uncertanity		
	<u>М</u> / В Д				
1	10	9.81	± 0.83		
2	50	50.18	± 0.837		
3	100	100.50	± 0.855		

Notes:-

Model

Certificate No.

- 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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Calibrated by

(Calibration Engineer)

Authorized Signatory



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CALIBRATION CERTIFICATE

Certificate Number : MES/210811/C5

Customer Details : WOMEN & CHILDREN'S HOSPITAL, MATTANCHERY.

Date of Calibration

. 11/08/2021

Next Calibration

Due

: 10/08/2022

Date of Issue

: 11/08/2021

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette

Serial No.

: LW00050

Make / Model

THERMO SCIENTIFIC

ID No.

: 68070025

Equipment Condition : (

Temperature(°C)

Good

Resolution

1μL

Range

: 5-50µL

Location

: LAB

DETAILS OF MASTER EQUIPMENT USED

Nomenclature

Electronic Precision Balance

Relative Humidity (%)

Range

: 0-210 gm

Make Model

Boeco

Reada

Readability

Atmospheric Pressure

0.01/0.1 mg

Water Temperature(°C)

Cartificate

BBC-22

SerialNo.

27104178

Certificate No.

MES/17012020/EB/C1

Calibration Due Date

14.01.2022

ENVIRONMENTAL CONDITIONS

			(mbar)	
27.1		56	1024	27.2
		CALIBR	RATION RESULTS	
Discipline	: /	Mechanical	Parameter	: Volume
SI no	19,00 19	Set volume	Actual volume	Expanded uncertanity
	и		μl	±ul

- Incertained		raiailletei	: volume
SI no	Set volume	Actual volume μl	Expanded uncertanity ± µl
01110	μ \		
1	5	4.91	± 0.131
2	25	25.01	± 0.132
3	50	50.11	± 0.231
	The state of the same of the s		

Notes:-

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Calibrated by

Authorized Signatory

Prabin KP (Calibration Engineer)