



CALIBRATION REPORT	
Report No: HBMS/CAL/23-24	Calibration Date: 30.09.2023
	Calibration Valid: 29.03.2024
1.1. CUSTOMER DETAILS:	
Name and Address of the organization	M/s, GOVT.PRIMARY HEALTH CENTRE, THENURPATTY, THUVRAPALLAM (PO), KOLLI HILLS.
1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):	
EQUIPMENT NAME	PIPETTE
I Manufactured by	THERMOSCIENTIFIC
II Model	FINNPIPETTE F3
III Value	1000µl
IV Serial No	QW14183

Calibration standards used :

Master instrument	Model	Serial no	Date of calibration	Calibration due on
Electrical compact scale	SF-400C	SF400-2240	07-OCT-2022	06-OCT-2023

Details of the machine: machine calibrated and checked output.

Number of measurement	Channel 1 (Volume)
	1000µl
1	1000.05
2	1000.06
3	1000.01
4	999.97
5	1000.01
6	1000.02

For Heart Beat Medical Systems,



 (Authorized signatory)

MD Reg No: TN/CBE/MD42/00016

GSTIN: 33AAJFH1833M1ZB

99400 28355, 9751206106

88833 15662

No.42/1, Navaindia Road, Peelamedu,

CBE - 04, hbmedicalsystem@gmail.com



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1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):	
EQUIPMENT NAME	PIPETTE
I Manufactured by	THERMOSCIENTIFIC
II Model	FINNPIPETTE
III Value	10µl
IV Serial No	PW01905

Calibration standards used :

Master instrument	Model	Serial no	Date of calibration	Calibration due on
Electrical compact scale	SF-400C	SF400-2240	07-OCT-2022	06-OCT-2023

Details of the machine: machine calibrated and checked output.

Number of measurement	Channel 1 (Volume)
	10µl
1	10.05
2	10.06
3	10.01
4	9.97
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6	10.02

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ELECTRICAL SAFETY TESTING/ CALIBRATION

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1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):

EQUIPMENT NAME		MICROSCOPE
i	Manufactured by	LABOMED
ii	Model	VISION 2000
iii	Serial No	170498395
iv	Location	LABORATORY

2.CONDITION OF THE ITEM WHEN RECEIVED

No visible damages and in working order

3.TEST DONE	Electrical safety/ Performance Testing
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4. STATUS

Manufactures Specification	User specification	Within specification	Out of specification	Calibration	Electrical Safety Test	Performance Analysis
√	-	√	-	-	√	-



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5. TRACEABILITY DETAILS OF INSTRUMENTS USED FOR TESTING					
S.no	Name of the instrument	Make	Model	Serial no	Cal Due
1.	Electrical safety analyser	Fluke	Esa612	3005050	07-OCT-2023

6. ELECTRICAL SAFETY TEST				
S.NO	PARAMETER	OBSERVED VALUE	ACCEPTANCE LIMITS AS PER THE STD	REMARKS
1.	Protective earth resistance	0.129Ω	<0.3 Ω	Ok
2.	Earth leakage	134.21μA	<210 μA NC	Ok
3.	Patient leakage current	NA	<100 μA BF	Ok
4.	Equipment current	0.3A	As per the manufacture spec	Ok
5.	Mains voltage (P-E)	230.5V	-	Ok
6.	Mains voltage (P-N)	231.2V	-	Ok
7.	Mains voltage (N-E)	1.0V	<5V	Ok
8.	Enclosure leakage current	50 μA	<100 μA (normal)	Ok
9.	Insulation resistance	OL	>100 M Ω	Ok

S.NO	7. Remarks
1.	This report is applicable to the sample tested only
2.	The instrument used for testing are valid calibration and are traceable to national standards
3.	Parameter of the DUT were verified and found to be within the specified limits

Verified by : 


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1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):	
EQUIPMENT NAME	CENTRIFUGE
i Manufactured by	MICROSIL
ii Model	MK-10
iii Serial No	96/385
iv Location	LABORATORY

CALIBRATION WORKSHEET

Tabulation For – Centrifuge

S.no	Unit under test IN Minutes	Observed speed tachometer in RPM	Deviation measured \pm RPM
1	1000	1001	1
2	1200	1200	0
3	1500	1499	-1
4	2000	2001	1

Acceptable deviation is \pm 5 RPM it depends on Max Speed Range





S.no	Unit under test in minutes	Standard reading Digital Timer in minutes	Deviation measured in minutes
1	05.0	05.1	0.1
2	10.0	10.2	0.2
3	15.0	15.1	0.1
4	20.0	20.2	0.2

Acceptance deviation: ± 0.5 seconds

Testy equipment used

The calibration was performed by using Digital Multimeter & PT -100 sensor, Digital Timer (Stop Watch) and Digital Tachometer (non - contact) measured has been inspected in accordance with our inspection procedures to meets manufactures specification .

Remarks

This certificate may not be reproduced other than is full Except prior permission of laboratory.

Verified by:



S. Anuj