



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, PRIMARY HEALTH CENTRE, RAMANATHAPURAM PUDHUR, BOMMASAMUDRAM.
1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):		
EQUIPMENT NAME		MICRO PIPETTE
i	Manufactured by	THERMOSCIENTIFIC
ii	Model	FINNNPIPETTE F3
iii	Value	100µl-1000µl
iv	Serial No	RW02846

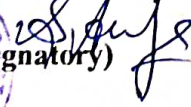
Calibration standards used :


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

Calibration test Report.

Number of measurement	Channel 1 (Volume)		
	100µl	500µl	1000µl
1	100.03	500.06	1000.14
2	100.04	500.09	1000.12
3	100.05	500.02	1000.10
4	100.09	500.08	1000.08
5	100.00	499.94	1000.09
6	100.08	500.07	1000.12

For Heart Beat Medical Systems,

(Authorized signatory) 





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1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):	
EQUIPMENT NAME	MICRO PIPETTE
i Manufactured by	THERMOSCIENTIFIC
ii Model	FINNPIPETTE F3
iii Value	10 µl -100 µl
iv Serial No	RW05703

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

Calibration test Report.

Number of measurement	Channel 1 (Volume)		
	10µl	50µl	100µl
1	10.03	50.06	100.14
2	10.04	50.09	100.12
3	10.05	50.02	100.10
4	10.09	50.08	100.08
5	10.00	49.94	100.09
6	10.08	50.07	100.12

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



ELECTRICAL SAFETY TESTING/ CALIBRATION

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1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):		
EQUIPMENT NAME		MICROSCOPE
i	Manufactured by	UNILAB
ii	Model	GE38
iii	Serial No	3911
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
√	-	√	-	-	√	-



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



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1.2. DESCRIPTION OF DEVICE UNDER TEST (DUT):		
EQUIPMENT NAME		CENTRIFUGE
i	Manufactured by	LABOTECH
ii	Model	BDI-152
iii	Serial No	2011675
iv	Location	LABORATORY

CALIBRATION WORKSHEET

Tabulation For – Centrifuge

S.no	Unit under test IN Minutes	Observed speed tachometer in RPM	Deviation measured ± RPM
1	1000	1000	0
2	1200	1201	1
3	1500	1502	2
4	2000	1999	-1

Acceptable deviation is ± 5 RPM it depends on Max Speed Range



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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 :

