



REPORT ON ELECTRICAL SAFETY TESTING/ PERFORMANCE ANALYSIS/ CALIBRATION

Report No : TR/PUPHC/013/22-23

Calibration Date : 15-08-2022

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Calibration Due : 14-08-2023

1.1 CUSTOMER DETAILS

Name and address of the organisation

UPHC PERIYASEMUR

Near panchayat office, Periyasemur

Erode

Tamil Nadu – 638004

Reference and Date

Letter dated 14-08-2022

Date of receipt of item

14-08-2022

1.2 DESCRIPTION OF DEVICE UNDER TEST (DUT)

Nomenclature	CENTRIFUGE
A. Manufactured by	REMI
B. Model	R8C
C. Serial No.	PUPHC002
D. Biomedical Product ID	PUPHC/LAB/CENT/02
E. Supply	220-230 V AC, 50/60 Hz
F. Wave Form	Damped sinusoidal
G. Device Type	Type CF
H. Device Classification	Class I equipment
K. Location	LABORATORY

1.3 CONDITION OF THE ITEM WHEN RECEIVED

No visible damage and in working order

1.4 ENVIRONMENTAL CONDITION OF MEASUREMENTS

A. Temperature	32.4°C
B. Relative Humidity	45-60%
C. Ambient Barometric Pressure	753mmHg

1.5 Applicable Specification

IEC Specification IEC 60601-1, IEC 60601-2-4

1.6 Test Done

Electrical Safety and Performance Testing

Tested BY :

Approved by :

Balamuralikrishnan K
(Biomedical Engineer)

Priya M
(Quality Manager)



FL BIOMEDICAL

**189, Vasantham Paradise,
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1.7 STATUS

Manufactures Specification	Users Specification	Within Specification	Out of Specification	Calibration	Electrical Safety Test	Performance Analysis
✓		✓		✓	✓	✓

1.8 TRACEABILITY DETAILS OF INSTRUMENTS USED FOR TESTING

Sl No	Name of the Instrument	Make	Model	Serial No	Cal Due	Traceability Reference
1.	Digital Tachometer	WACO	DT-2234C	1804160817	JULY 2023	Annexure 3
2.	Electrical Safety Analyzer	RGM	288+	05H-0600	JULY 2023	Annexure 1

1.9 PERFORMANCE ANALYSIS OF CENTRIFUGE

Rpm / Speed

Sl No	Speed Output In RPM	Deviations in DUT (RPM)	Allowed Deviation Range (RPM)	Remarks
	SET VALUE IN DUT(J)	MEASURED VALUE IN DUT(J)		
1.	1000	1023	±100	PASS
2.	2500	2570	±100	PASS
3.	3000	3051	±100	PASS
4.	3500	3573	±100	PASS

2.0 ELECTRICAL SAFETY TEST

S.no	Parameter	Observed value	Acceptable limits as per the Std.	Remarks
1.	Protective earth resistance	0.122 Ω	< 0.3 Ω	ok
2.	Earth leakage	130.2 μA	< 5K μA NC	ok
3.	Patient leakage current	7.8 μA	< 100 μA BF	ok
4.	Equipment current	0.3 A	As per manufacture spec	ok
5.	Mains voltage	231.2 V	As per manufacture spec	ok

3.0 REMARKS

- 3.1 This report is applicable to the sample tested only.
- 3.2 The instruments used for testing are under valid calibration and are traceable to National Standards.
- 3.3 Parameter of the DUT were verified and found to be within the specified limits.
- 3.4 refer NABL Doc No. 121 Clause 7.0 Accommodation and environmental Conditions sub Clause see 7.2.11 below in line with ISO/IEC 17025:2005 Clause 5.3

Tested BY :

Balamuralikrishnan K
(Biomedical Engineer)



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