

REPORT ON ELECTRICAL SAFETY TESTING/ PERFORMANCE ANALYSIS/ CALIBRATION

Report No : TR/APHC/022/23-24
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Calibration Date : 08/03/2023
Calibration Due : 07/03/2024

1.1 CUSTOMER DETAILS

Name and address of the organisation

Primary Health Centre
New Gh Road, Opposite State Bank Of India, Ayalur,
Gobichettipalayam, Erode District,
Tamil Nadu. 638453
Letter dated 08-03-2023
08/03/2023

Reference and Date
Date of receipt of item

1.2 DESCRIPTION OF DEVICE UNDER TEST (DUT)

NOMENCLATURE

CENTRIFUGE

Manufactured by

LABO TECH

Model

BIO-152

Serial No.

APHCLABCENT01

Biomedical Product ID

APHC/LAB/CENT/01

Supply

220V-240V AC

Device Type

Type CF

Device Classification

Class II equipment

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

26.6°C

B. Relative Humidity

45-75%

C. Ambient Barometric Pressure

756mmHg

1.5 Applicable Specification

IEC Specification IEC 60601-1, IEC 60601 -2-27

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,
Chithode, Erode-638102.
Cell: 7092848995



1.7 STATUS

Manuf 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	14-Aug-23	Annexure 1
2	ESA	RGM	288+	05H-0600	14-Aug-23	Annexure 3

1.9 PERFORMANCE ANALYSIS OF CENTRIFUGE

Speed Output In RPM	1000	2500	3500	4500	ACCURACY	RESULT
T1	1007.89	2500.92	3502.77	4508.36	±10 RPM	PASS
T2	1003.89	2509.94	3502.09	4503.18		PASS
T3	1003.46	2503.04	3506.88	4505.72		PASS
T4	1008.72	2502.79	3509.18	4509.84		PASS
T5	1000.48	2505.55	3501.26	4509.06		PASS
N	5	5	5	5		
MEAN	1004.888	2504.448	3504.436	4507.232		
UNCERT Δδ	1.60	1.53	1.31	1.15		
(K=2) CI @95%	1000 ± 1.6	2500 ± 1.53	3500 ± 1.31	4500 ± 1.15		


2.0 ELECTRICAL SAFETY TEST


Sl.No	Parameter	Observed value	Cal & M.capl	Acceptable limits as per the Std.	Remarks
1	Protective earth resistance	0.275 Ω	±3%	0.0 Ω - 0.3 Ω	ok
2	Chassis Leakage	52μA	±5%	1 μA - 100 μA NC	ok
		404 μA	±5%	1 μA - 500 μA SFC	ok
3	Patient leakage current	272 μA	±5%	1 μA - 100 μA B & BF(NC)	ok
		9 μA	±5%	1 μA - 10 μA CF (SFC)	ok
4	Earth Leakage	588 μA	±5%	1 μA - 1000 μA B.BF.CF (NC)	ok
		2952 μA	±5%	1 μA - 5000 μA B.BF.CF (SFC)	ok
5	Insulation Resistance 500 V DC	Success	±5%	≥2 MΩ	ok
6	Equipment current	0.1 A	-	As per manufacture spec	ok
7	Mains voltage	234V	-	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:
Balaraman K
(Biomedical Engineer)



Approved by : 
FL BIOMEDICAL
189, Vasantham Paradise,
Chithode, Erode-638102.
Priya M
(Quality Manager) Cell: 7092848995