



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	MICROSCOPE
A.	Manufactured by	Lawrence & Mayo
B.	Model	XSZ-N107T
C.	Serial No.	8486
D.	Biomedical Product ID	PUPHC/LAB/MICS/01
E.	Supply	220-230 V AC, 50/60 Hz
F.	Device Type	Type C
G.	Device Classification	Class I equipment
H.	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

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

Phone: 714938995

Read Address : 189 Vasantham Paradise Chithode Erode - 638102





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.	Electrical Safety Analyzer	RGM	288+	05H-0600	JULY 2023	Annexure 1

1.9 PERFORMANCE ANALYSIS OF MICROSCOPE

Objective lens	Total magnification	Magnification of Objective lens in mm / μ m	Number of squares x square size	Diameter of FOV (μ m)	Radius of FOV μ m (mm)	Specf. Limit as per Mfr. Spec	Remarks
4X	40X	0.025/25	4.4 x 1mm	4400	2200 (2.20)		Pass
10X	100X	0.010/10	1.7 x 1mm	1700	850 (0.85)	$\pm 1 \mu$ m	Pass
40X	400X	0.0025/2.5	4.3 x 0.1mm	430	215 (0.215)		Pass
100X	1000X	0.001/1	1.8 x 0.1mm	180	90 (0.09)		Pass

2.0 ELECTRICAL SAFETY TEST

S.no	Parameter	Observed value	Acceptable limits as per the Std.	Remarks
1.	Protective earth resistance	0.127 Ω	< 0.3 Ω	ok
2.	Earth leakage	114.3 μ A	< 5K μ A NC	ok
3.	Patient leakage current	3.2 μ A	< 100 μ A BF	ok
4.	Equipment current	0.1 A	As per manufacture spec	ok
5.	Mains voltage	229.1 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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