

COTEX LAXMI HEALTHCARE PVT. LTD.

Sawangi Meghe ,Wardha-442001

CALIBRATION CERTIFICATE

1.Customer

Name and Address of Customer:

SHALINITAI MEGHE HOSPITAL AND RESEARCH

CENTER, WANADONGARI

HINGNA,NAGPUR,441110

Ambient Temp.: (25±2)°c

45 %RH to 75 %RH RH:

CLH/CAL/20/TI/SOP/12

BIOCHEMISTRY LAB

Date of Calibration:

21-04-2022 20-04-2023

Due Date of Calibration Location of Calibration

ON SITE

Equipment Status

OK

2.Description of item

LABORATORY CENTRIFUGE REMI Make:

NA Model: NA

DIGITAL

BIOCHEMISTRY LAB

Asset No.:

3104 3500RPM

Calibration Certificate no.:

CLH/CAL/SMHRC/CCL/CENT/01

3. Equipment used for Calibration (Master)

Electrical Safety Analyzer Make/ Model: FlukeBiomedical/ESA612

5188505

Certificate no. M-220224-2-1 26-02-2023

Digital thermohygrometer EUTRON/TM-902C

Certificate no. Validity

ACS/126/CM/106/2100004

02-05-2023

The Masters are traceable to National/International Standards.

4. ELECTRICAL SAFETY

4.(1) Visual Test Inspection

SR.NO.	TEST	REMARK
1	Device clean and Decontaminated	ОК
2	Physical Damange	ОК
3	Power Cord, Cable checking	ОК
4	Mains Socket Checking	OK
5	Alarm function	ОК
6	Equipment type(B.BF,CF)	В
7	Equipment class(I.II,III)	1

B-Body Type, BF-Body Float Type, CF-Cardiac Float Type.

I-Properly Earthed, II-Double Insulated, III-With Extra Safety Low Voltage.

4.(2) Electrical Safety Test

SR.NO.	PARAMETERS	DESIRED VALUE	MEASURED VALUE	REMARK
1	Voltage between live to neutral (V In)	220-240 V	229.8 V	ОК
2	Voltage between live to earth (V le)	220-240 V	228.9 V	OK
3	Voltage between neutral to earth (V In)	0-5 V	0.3 V	ОК
4	Load Current (la)	0-10 A	1.2A	ОК
5	Earth Leakage Current (IL)	0-500 μΑ	90.5 μΑ	OK
6	Enclosure Current	0-10 μΑ	0.5 μΑ	ОК
7	Patient Leackage Current (PL)	BF 0-100 μA,CF 0-10μA	0.3 μΑ	OK
8	Ground Wire Resistance	0Ω -3Ω	1Ω	ОК

5. Performance Test

SR.NO.	CALIBRATION POINT °c	STANDERED READING °c	UUC READINGS ⁰c	ERROR IN °c
1	30	29.367	30	0.633
2	80	79.967	80	0.033
3	100	99.333	100	0.667
4	110	111.833	110	-1.833

1. The equipment is functioning with in the normal limits.

- 1) Prior to the calibration of this electrical safety parameters such as ground wire resistance, chassis Leakage, Patient Leakage Current, Patient Lead Leakage Current: Isolation Test(mains on applied part), Insulation(optional) 500 V etc. verified as per IEC-60601/62353 and found within limits.
- 2) The standards used for calibration were calibrated by using reference standard traceable to National/International standard & Calibration Points were selected as per customers Specification.
- 3) The reported uncertainty is expanded uncertainty in measurement obtained by multipying the courage factor
- k=2, which corresponds to courage probability of approximately factor k=2, which corresponds to courage probablity of approximately 95% for normal distribution.
- 4) The certificate refers only to the particular item submitted for calibration. UUC stand for normal distribution.
- 5) The calibration results reported in the certificate are valid at the time for and under the stated condition of measurement.
- 6) Calibration point were selected as per customer specification and calibration report traceble to national or international standard
- 7) This certificate shall not be reproduced, except infull unless written permission for the publication of an approved abstract has been obtained from the Technical manager of COTEX LAXMI HEALTHCARE PVT, LTD, WARDHA.

Calibrated By

Calibration Engineer

Technical Manager

Page No.:02

National Accreditation Board for Testing and Calibration Laboratories

Specific Criteria for calibration of Medical Devices Doc No.:39

Issue No.:01 Issue Date: 1/01/2021 Amend No.: 1

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Page 2