



## CALIBRATION CERTIFICATE

Customer Name & Address:	<b>M/S. Sri Amman Micro Lab,</b> #118, R.S. Road, Opp.Govt. Hopsital, Perundurai-638052	Certificate No:	AMS/HOSP/289/2273
		Issuing Date:	12/09/2022
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### Details of Device under Calibration (DUC):

DUC:	<b>Bio Chemistry Analyser</b>	Id. No:	<b>SAM/LAB/BCA/001</b>
Make:	Erba	Department:	Laboratory
Model:	Chem-7	Calibrated On:	<b>11/09/2022</b>
Sl. No:	1906175	Calibration Due Suggested:	<b>10/09/2023</b>
Type:	Semi Auto	DUC Condition on Receipt:	<b>OK</b>
Range & Least Count:	---		

### Traceability Details:

Sl.No.	Test Equipment	Make	Certificate Number	Valid Up to
1	Electrical Safety Analyser	RigelSafeTest60	PSG/CIRD/BMCC/6908/2022	31/01/2023
2	Manometer	Lutron/PM9100	PC/01/22/ATL/0432-05	30/01/2023
3	Electronic Weighing Scale	EWC/SF400C	PC/01/22/ATL/0432-02	30/01/2023
4	Thermo Hygrometer	Beetech/088	PC/01/22/ATL/0265-01	30/01/2023

Room Temperature: 25°C±2      Room Humidity: 30-60%      (At the time of Calibration)

### ESA Test Results:

SL.No	Parameter	ESA Reading	Unit	Normal Range	Condition
1	Current	278	mA	500	Normal
2	Frequency	49.9	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	236.1	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	235.5	Volts	220 - 240	Normal
5	Mains Voltage Neutral - Earth	4.9	Volts	< 7	Normal

\*Electrical Safety: Please check the attached log sheet

SL.No	Parameter	Measured	Standard	Correction	Unit
1	Lamp Voltage	11.78	12.0	-0.22	Volts
2	Detector Sensitivity	0.0	0.0	0.0	% Absorbance
3	Sipper Volume	432.5	450	-17.5	µl
4	Peristaltic Pump pressure	-14.42	-15.0	-0.58	cmH2O

Allowable Tolerance: set by Customer

Note:

1. Calibration Points were selected as per customer request.
2. Each reading was taken by Repeatability Test (i.e.) each reading in a row is a mean of 10 readings.
3. Results Reported are valid at the time of and under the stated conditions of measurements.

**Calibrated By:**  
(Calibration Engineer)

aceagm@gmail.com



amshealthcareindia@gmail.com

**Approved by:**  
(Technical Manager)

94434 74610, 93455 56148

ESA Results:

Test Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Parts
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	0.1704	Ω	Normal	Closed	Closed	All
2	IEC60601	Leakage: Earth	Normal	AC+DC	138.36	µA	Normal	Closed	Closed	All
3		Leakage: Earth	Normal	AC+DC	129.72	µA	Reversed	Closed	Closed	All
4		Leakage: Enclosure	Normal	AC+DC	0.00	µA	Normal	Closed	Open	All
5		Leakage: Enclosure	Normal	AC+DC	0.00	µA	Reversed	Closed	Closed	All
6		Leakage: Earth	SFC	AC+DC	268.20	µA	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	256.57	µA	Reversed	Open	Closed	All
8		Leakage: Enclosure	SFC	AC+DC	140.04	µA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	145.56	µA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	0.123	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	50	Hz	Normal	Closed	Closed	All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	227.4	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	228	V	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	4.8	V	Normal	Closed	Closed	All
15		IEC62353	Equipment Leakage	Direct Method	AC+DC	165.60	µA	Normal	Closed	Open
16	Equipment Leakage		Direct Method	AC+DC	165.24	µA	Reversed	Closed	Open	All
17	NFPA-99	Ground Leakage	Normal	AC+DC	140.78	µA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	137.04	µA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	270.60	µA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	270.84	µA	Reversed	Open	Closed	All
21		Chassis Leakage	Normal	AC+DC	0.00	µA	Normal	Closed	Closed	All
22		Chassis Leakage	Normal	AC+DC	0.00	µA	Reversed	Closed	Closed	All
23		Chassis Leakage	SFC	AC+DC	143.16	µA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	137.88	µA	Reversed	Closed	Open	All
25	IEC61010	Touch Leakage	Normal	AC+DC	0.00	µA	Normal	Closed	Closed	All
26		Touch Leakage	Normal	AC+DC	0.00	µA	Reversed	Closed	Closed	All
27		Touch Voltage	Normal	AC+DC	2.75	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	2.75	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	133.27	µA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	132.37	µA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	2.75	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	2.75	V	Reversed	Closed	Open	All
33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All
34	Point to Point Testing	Point to Point Earth Bond Test	Normal	AC+DC	>19.9	Ω	Normal	Closed	Closed	All
35		Point To Point Leakage Test	Normal	AC+DC	0	mA	Normal	Closed	Closed	All
36		Standard Insulation Test	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All
Test Passed	Yes	Tested On	10-09-2022	Tested By						

