

AMS Healthcare

(Erstwhile : Ace Medical Solutions (India) Pvt. Ltd.)

An ISO 9001-2015 Certified Company

No. 770/1, Jothi Complex 2nd Floor, Alagar Kovil Main Road, Surveyor Colony,
Madurai - 625 007, Tamilnadu, India Mobile : +91 94434 74610



GSTIN. 33AOSPA9153Q1ZA • DL No. TN-12-20B -00398, TN-12-21B-00398

CALIBRATION CERTIFICATE

Customer Name & Address:	M/S. Bharathi Laboratory, #69/A, Swami Sannathi Street, Tirunelveli Town – 6.	Certificate No:	AMS/LAB/289/5195
		Issuing Date:	30/10/2023
		Page No:	1 of 2

Details of Device under Calibration (DUC):

DUC:	Bio Chemistry Analyser	Id. No:	BH/LAB/BCA/001
Make:	LAB	Department:	Laboratory
Model:	3300	Calibrated On:	28/10/2023
Sl. No:	---	Calibration Due Suggested:	27/10/2024
Type:	Semi Auto	DUC Condition on Receipt:	OK

Traceability Details:

Sl.No.	Test Equipment	Make	Certificate Number	Valid Up to
1	Electrical Safety Analyser	RigelSafeTest60	CC23021536	31/01/2024
2	Manometer	Lutron/PM9100	PC/01/23/ATL/0512-04	31/01/2024
3	Electronic Weighing Scale	EWC/SF400C	PC/01/23/ATL/0512-02	31/01/2024
4	Thermo Hygrometer	Beetech/088	PC/01/22/ATL/0210-02	31/01/2024

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	371	mA	500	Normal
2	Frequency	50	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	230.8	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	231.5	Volts	220 - 240	Normal
5	Mains Voltage Neutral - Earth	4.6	Volts	< 7	Normal

*Electrical Safety: Please check the attached log sheet

SL.No	Parameter	Measured	Standard	Correction	Unit
1	Lamp Voltage	11.56	12.0	-0.44	Volts
2	Detector Sensitivity	0.0	0.0	0.0	% Absorbance
3	Sipper Volume	415	400	+15.0	µl
4	Peristaltic Pump pressure	-15.56	-15	+0.56	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)

Approved by:
(Technical Manager)



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	0.1833	Ω	Normal	Closed	Closed	All

2	IEC60601	Leakage: Earth	Normal	AC+DC	132.80	µA	Normal	Closed	Closed	All
3		Leakage: Earth	Normal	AC+DC	124.31	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	257.03	µA	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	245.88	µA	Reversed	Open	Closed	All
8		Leakage: Enclosure	SFC	AC+DC	134.21	µA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	139.50	µA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	371	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	230.8	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	231.5	V	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	4.6	V	Normal	Closed	Closed	All

15	IEC62353	Equipment Leakage	Direct Method	AC+DC	158.70	µA	Normal	Closed	Open	All
16		Equipment Leakage	Direct Method	AC+DC	158.36	µA	Reversed	Closed	Open	All

17	NFPA-99	Ground Leakage	Normal	AC+DC	134.90	µA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	131.33	µA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	259.33	µA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	259.58	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	137.20	µA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	132.14	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	2.63	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	2.63	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	127.72	µA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	126.85	µA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	2.63	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	2.63	V	Reversed	Closed	Open	All

33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All
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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	28.10.2023	Tested By	
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