

# Ace Medical Solutions (India) Pvt. Ltd.

An ISO 9001-2015 Certified Company

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GSTIN: 33AAHCA8053H1ZR • DL No. MDU/4205/20B,MDU/3971/21B • CIN : U33110TN2009PTC072140

## CALIBRATION CERTIFICATE



Customer Name & Address:	M/S. BHARATH Computerised Clinical Lab, #26, Gomathi Complex, Dr.Radhakrishnan Rd, Teachers Colony, Erode – 638 011.	Certificate No:	AMS/LAB/2889539
		Issuing Date:	19/07/2021
		Page No:	1 of 1

### Details of Device under Calibration (DUC):

DUC:	Bio Chemistry Analyser	Id. No:	BCL/LAB/BCA/001
Make:	STAT FAX	Department:	Laboratory
Model:	ST Plus	Calibrated On:	17/07/2021
Sl. No:	---	Calibration Due Suggested:	16/07/2022
Type:	Semi Auto – Cuvette Model	DUC Condition on Receipt:	OK
Range & Least Count:	---		

### Traceability Details:

Sl.No.	Test Equipment	Make	Certificate Number	Valid Up to
1	Electrical Safety Analyser	RigelSafeTest60	PSG/CIRD/BMCC/5507/2021	18/01/2022
2	Thermo Hygrometer	Beetech/088	PC/01/21/ATL/0194-01	22/01/2022

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	236	mA	500	Normal
2	Frequency	49.99	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	239.8	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	150.5	Volts	220 - 240	Abnormal
5	Mains Voltage Neutral - Earth	90.5	Volts	< 7	No Earth

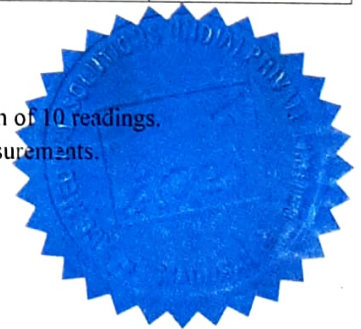
\*Electrical Safety: Please check the attached log sheet

Sl.No	Parameter	Measured	Standard	Correction	Unit
1	Lamp Voltage	11.68	12.0	-0.32	Volts
2	Detector Sensitivity	-0.00	0.0	0.0	% Absorbance

Allowable Tolerance: set by Customer

Note:

1. Calibration Points were selected as per customer request.
2. Each reading is 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)

B. S. S.



Approved by:

(Technical Manager)

B. S. S.

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	3.2128	Ω	Normal	Closed	Closed	All
2	IEC60601	Leakage: Earth	Normal	AC+DC	2698.66	μA	Normal	Closed	Closed	All
3		Leakage: Earth	Normal	AC+DC	2445.67	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	5056.69	μA	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	4837.41	μA	Reversed	Open	Closed	All
8		Leakage: Enclosure	SFC	AC+DC	2640.34	μA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	2744.41	μA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	0.236	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	49.99	Hz	Normal	Closed	Closed	All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	239.8	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	150.5	V	Abnormal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	90.5	V	Abnormal	Closed	Closed	All
15		IEC62353	Equipment Leakage	Direct Method	AC+DC	3122.25	μA	Normal	Closed	Open
16	Equipment Leakage		Direct Method	AC+DC	3115.46	μA	Reversed	Closed	Open	All
17	NFPA-59	Ground Leakage	Normal	AC+DC	2653.91	μA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	2583.78	μA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	5101.94	μA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	5106.46	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	2699.16	μA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	2599.61	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	51.77	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	51.77	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	2512.72	μA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	2495.64	μA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	51.77	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	51.77	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: 17/07/2021      Tested By:

