

# Ace Medical Solutions (India) Pvt. Ltd.

An ISO 9001-2015 Certified Company

No : 3/751, 1st Cross Street, Surveyor Colony, K.Pudur, Madurai - 625 007.

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

## CALIBRATION CERTIFICATE



Customer Name & Address:	M/S. Gowtham Diagnostic Centre, 744-B, Uthukuli Main Road, OPP. GH, Kunnathur, Tirupur Dt. - 638 103.	Certificate No:	AMS/LAB/2889721
		Issuing Date:	14/08/2021
		Page No:	1 of 1

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

DUC:	Bio Chemistry Analyser	Id. No:	GDC/LAB /BCA/001
Make:	VERSA	Department:	Laboratory
Model:	Auto Lab	Calibrated On:	13/08/2021
Sl. No:	ES1021709066	Calibration Due Suggested:	12/08/2022
Type:	Semi Auto	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	0.268	mA	500	Normal
2	Frequency	50.1	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	253.9	Volts	220 - 240	Abnormal
4	Mains Voltage Line - Earth	256.3	Volts	220 - 240	Abnormal
5	Mains Voltage Neutral - Earth	5.7	Volts	< 7	Normal

\*Electrical Safety: Please check the attached log sheet

SL.No	Parameter	Measured	Standard	Correction	Unit
1	Lamp Voltage	12.14	12.00	+0.14	Volts
2	Detector Sensitivity	-0.00	0.0	0.0	% Absorbance
3	Sipper Volume	392	450	-58.0	
4	Peristaltic Pump pressure	-13.07	-15	+0.93	

Note:

1. Calibration Points were selected as per customer request.
2. Each reading were 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	0.2024	Ω	Normal	Closed	Closed	All

2	IEC60601	Leakage: Earth	Normal	AC+DC	164.30	μA	Normal	Closed	Closed	All
3		Leakage: Earth	Normal	AC+DC	154.04	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	318.49	μA	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	304.58	μA	Reversed	Open	Closed	All
8		Leakage: Enclosure	SFC	AC+DC	166.30	μA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	172.35	μA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	0.268	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	50.1	Hz	Normal	Closed	Closed	All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	253.9	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	256.3	V	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	5.7	V	Normal	Closed	Closed	All

15	IEC62353	Equipment Leakage	Direct Method	AC+DC	196.65	μA	Normal	Closed	Open	All
16		Equipment Leakage	Direct Method	AC+DC	196.22	μA	Reversed	Closed	Open	All

17	NFPA-99	Ground Leakage	Normal	AC+DC	167.15	μA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	162.74	μA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	321.34	μA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	321.62	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	170.00	μA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	163.73	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	3.26	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	3.26	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	158.26	μA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	157.18	μA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	3.26	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	3.26	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 13/08/2021 Tested By B. B. J.

