

# Ace Medical Solutions (India) Pvt. Ltd.



An ISO 9001:2015 Certified Company  
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GSTIN: 33AAHCAS053H1ZR • DU No. MDU/4205/20B,MDU/3971/21B • CIN : U33110TN2009PTC072140

## CALIBRATION CERTIFICATE

Customer Name & Address:	M/S. Guru Micro Lab, #Near police station, Salem police station, Komarapalayam-638183	Certificate No:	AMS/HOSP/289/2054
		Issuing Date:	03/09/2022
		Page No:	1 of 2

Details of Device under Calibration (DUC):		Id. No:	GML/LAB/BCA/001
DUC:	Bio Chemistry Analyser	Department:	Laboratory
Make:	Mispa viva	Calibrated On:	02/09/2022
Model:	Agappe	Calibration Due Suggested:	01/09/2023
Sl. No:	212130167886	DUC Condition on Receipt:	OK
Type:	Semi Auto		
Range & Least Count:	---		

Traceability Details:			Certificate Number	Valid Up to
Sl.No.	Test Equipment	Make		
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)



Approved by:  
(Technical Manager)

EBA Results:

Test Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Parts
			Normal	AC+DC	3.9088	Ω	Normal	Closed	Closed	All
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	3.9088	Ω	Normal	Closed	Closed	All
2	IEC60601	Leakage: Earth	Normal	AC+DC	3173.83	μA	Normal	Closed	Closed	All
3		Leakage: Earth	Normal	AC+DC	2978.34	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	8151.84	μA	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	5885.07	μA	Reversed	Open	Closed	All
8		Leakage: Enclosure	SFC	AC+DC	3212.17	μA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	3338.78	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	244.5	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	138.3	V	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	110.1	V	Normal	Closed	Closed	All
15		IEC62353	Equipment Leakage	Direct Method	AC+DC	3798.45	μA	Normal	Closed	Open
16	Equipment Leakage		Direct Method	AC+DC	3790.19	μA	Reversed	Closed	Open	All
17	NFPA-99	Ground Leakage	Normal	AC+DC	3228.68	μA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	3143.36	μA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	6206.89	μA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	6212.39	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	3283.73	μA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	3162.62	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	62.98	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	62.98	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	3056.91	μA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	3036.13	μA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	62.98	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	62.98	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 02-09-2022 Tested By 

