

# 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,  
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GSTIN. 33ADSPA9153Q1ZA • DL No. TN-12-20B -00398, TN-12-21B-00398

## CALIBRATION CERTIFICATE

Customer Name & Address:	M/S. Annai Diagnostics, #Krishnarayar Tank Road, opp. To Harley Rram Hosp. Madurai-01.	Certificate No:	AMS/LAB/289/2836
		Issuing Date:	18/01/2023
		Page No:	1 of 2

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

DUC:	Fully Automated Analyser	Id. No:	AN/LAB/FAA/001
Make:	Erba	Department:	Laboratory
Model:	Em200	Calibrated On:	17/01/2023
Sl. No:	B200541	Calibration Due Suggested:	16/01/2024
Type:	Fully 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/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	200	mA	500	Normal
2	Frequency	50	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	219.7	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	113.7	Volts	220 - 240	Normal
5	Mains Voltage Neutral - Earth	106.4	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	cmH <sub>2</sub> O
4	Peristaltic Pump pressure	-14.42	-15.0	-0.58	

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
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	4.0683	Ω	Normal	Closed	Closed
2	IEC60601	Leakage: Earth	Normal	AC+DC	3303.35	μA	Normal	Closed	Closed
3		Leakage: Earth	Normal	AC+DC	3096.95	μA	Reversed	Closed	Closed
4		Leakage: Enclosure	Normal	AC+DC	0.00	μA	Normal	Closed	Open
5		Leakage: Enclosure	Normal	AC+DC	0.00	μA	Reversed	Closed	Closed
6		Leakage: Earth	SFC	AC+DC	6403.28	μA	Normal	Open	Closed
7		Leakage: Earth	SFC	AC+DC	6125.60	μA	Reversed	Open	Closed
8		Leakage: Enclosure	SFC	AC+DC	3343.46	μA	Normal	Closed	Open
9		Leakage: Enclosure	SFC	AC+DC	3475.25	μA	Reversed	Closed	Open
10		Current	Normal	AC+DC	0.1	Amps	Normal	Closed	Closed
11		Frequency	Normal	AC+DC	51.2	Hz	Normal	Closed	Closed
12		Mains Voltage: Live to Neutral	Normal	AC+DC	226.4	V	Normal	Closed	Closed
13		Mains Voltage: Live to Earth	Normal	AC+DC	116.5	V	Normal	Closed	Closed
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	114.6	V	Normal	Closed	Closed
15		IEC62353	Equipment Leakage	Direct Method	AC+DC	3953.70	μA	Normal	Closed
16	Equipment Leakage		Direct Method	AC+DC	3945.11	μA	Reversed	Closed	Open
17	NFPA-99	Ground Leakage	Normal	AC+DC	3360.65	μA	Normal	Closed	Closed
18		Ground Leakage	Normal	AC+DC	3271.83	μA	Reversed	Closed	Closed
19		Ground Leakage	SFC	AC+DC	6460.58	μA	Normal	Open	Closed
20		Ground Leakage	SFC	AC+DC	6466.31	μA	Reversed	Open	Closed
21		Chassis Leakage	Normal	AC+DC	0.00	μA	Normal	Closed	Closed
22		Chassis Leakage	Normal	AC+DC	0.00	μA	Reversed	Closed	Closed
23		Chassis Leakage	SFC	AC+DC	3417.95	μA	Normal	Closed	Open
24		Chassis Leakage	SFC	AC+DC	3291.89	μA	Reversed	Closed	Open
25	IEC61010	Touch Leakage	Normal	AC+DC	0.00	μA	Normal	Closed	Closed
26		Touch Leakage	Normal	AC+DC	0.00	μA	Reversed	Closed	Closed
27		Touch Voltage	Normal	AC+DC	65.55	V	Normal	Closed	Closed
28		Touch Voltage	Normal	AC+DC	65.55	V	Reversed	Closed	Closed
29		Touch Leakage	SFC	AC+DC	3181.86	μA	Normal	Closed	Open
30		Touch Leakage	SFC	AC+DC	3160.22	μA	Reversed	Closed	Open
31		Touch Voltage	SFC	AC+DC	65.55	V	Normal	Closed	Open
32		Touch Voltage	SFC	AC+DC	65.55	V	Reversed	Closed	Open
33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed
34	Point to Point Testing	Point to Point Earth Bond Test	Normal	AC+DC	>19.9	Ω	Normal	Closed	Closed
35		Point To Point Leakage Test	Normal	AC+DC	0	mA	Normal	Closed	Closed
36		Standard Insulation Test	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed
Test Passed	Yes	Tested On	17/01/2023	Tested By					