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	M/S. Sri Annai Clinical Lab	Certificate No:	AMS/HOSP/2888436
Name &	11, Pattabiramar Kovil Street,	Issuing Date:	02/09/2020
Address:	Aruppukkottai.	Page No:	1 of 2

Details of Device under Calibration (DUC):

DUC:	Bio Chemistry Analyser	Id. No:	SAC/LAB/BCA/001		
Make:	ERBA Mannheim	Department:	Laboratory		
Model:	Chem – 5 plus	Calibrated On:	01/09/2020		
Sl. No:	100238	Calibration			
Type:	Semi Auto	Due Suggested:	31/08/2021		
Range &		DUC Condition			
Least Count:		on Receipt:	OK		

Traceability Details:

Sl.No.	Test Equipment	Make	Certificate Number	Valid Up to	
l Electrical Safety Analyser		RigelSafeTest60	PSG/CIRD/BMCC/4424/2020	19/01/2021	
2	Thermo Hygrometer	HTC	QC/AMS-DTI-004	22/02/2021	

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 Normal Normal	
1	Current	382	mA	1		
2	Frequency	49.98	Hz	49 - 50		
3	Mains Voltage Line - Neutral	228.5	Volts	220 - 240	Normal	
4	Mains Voltage Line - Earth	228.4	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	11.92	12.00	-0.08	Volts
2	Detector Sensitivity	-0.00	0.0	0.0	% Absorbance
3	Sipper Volume	330	400	-70	ans mul
4	Peristaltic Pump pressure	12.375	15	-2.625	cmH2O

Allowable Tolerance: set by Customer

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. 89 L





(Technical Manager)

B. 89.

ESA Results:

Test Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Par
I	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	0.1491	Ω	Normal	Closed	Closed	All
2		Leakage: Earth	Normal	AC+DC	121.07	μА	Normal	Closed	Closed	All
2		Leakage Earth	Normal	AC+DC	113.50	μА	Reversed	Closed	Closed	All
-,	-		Normal	AC+DC	0.00	μА	Normal	Closed	Open	All
4		Leakage: Enclosure	27.31		0.00		Reversed	Closed	Closed	All
5		Leakage: Enclosure	Normal	AC+DC	.0.00	μА				
. 6		Leakage: Earth	SFC	AC+DC	234,68	μА	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	224.50	μА	Reversed	Open	Closed	
8	IEC60601	Leakage: Enclosure	SFC	AC+DC	122.54	μA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	127.37	μА	Keversea			
10		Current	Normal	AC+DC	0.45	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	49,9	Н	Normal	Closed	Closed	All
12		Mains Voltage Live to Neutral	Normal	AC+DC	231.2	V	Normal	Closed	Closed	All
13	,	Mains Voltage: Live to Earth	Normal	AC+DC	235.9	V	Normal	Closed	Closed	All
14:		Mains Voltage: Neutral to Earth	Normal	AC+DC	4.2	V	Normal	Closed	Closed	All
		E-imment Laghana	Direct Method	AC+DC	144.90	μА	Normal	Closed	Open	All
15	IEC62353	Equipment Leakage				-			+	All
16		Equipment Leakage	Direct Method	AC+DC	144.59	μА	Reversed	Closed	Open	All
17		Ground Leakage	Normal	AC+DC	123.17	μА	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	119.91	μА	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	236.78	μА	Normal	Open	Closed	All
20	NFPA-99	Ground Leakage	SFC	AC+DC	236.99	μА.	Reversed	Open	Closed	All
21		Chassis Leakage	Normal	- AC+DC	0.00	μА	Normal	Closed	Closed	All
22		Chassis Leakage	Normal	AC+DC	0.00	μА	Reversed	Closed	Closed	All
			SFC	AC+DC	125.27	μА	Normal	Closed	Open	All
23		Chassis Leakage Chassis Leakage	SFC	AC+DC	120.65	μА	Reversed		Open	-
24		Chassis Leakage	310	ACTOC	1 20000000			1 5.000		
2.5		Touch Leakage	Normal	AC+DC	0.00	μА	Normal	Closed	Closec	All
26		Touch Leakage	Normal	AC+DC	0.00	μА	Reversed	Closed	Closed	All
27		Touch Voltage	Normal	AC+DC	2.40	V	Normal	Closed	Closed	All
28	1EC61010	Touch Voltage	Normal	AC+DC	2.40	V	Reversed	Closed	Closed	All
			SFC	AC+DC	116.61	μА	Normal	Closed	Open	All
30		Touch Leakage Touch Leakage	SFC	AC+DC	115.82	μА	Reversed		Open	
31		Touch Voltage	SFC	AC+DC	2.40	V	Normal	Closed	Open	
32		Touch Voltage	SFC	AC+DC	2.40	V	Reversed			77/00
									,	
33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	МΩ	Normal	Closed	Closed	All
- Eline		December 17	Name	ACLDC	-10.0	Ω	Normal	Closed	Closed	All
34		Point to Point Earth Bond Test	Normal	AC+DC	19.9					
35	Point to Point Testing	Point To Point Leakage Test	Normal	AC+DC	()	mA	Normal	Closed	Closed	
36		3tandard Insulation Test	Normal	AC+DC	>2()	. ΜΩ	Normal	Closed	Closec	All
Test Passed	Yes	Tested On	1/9/2020	Tested By	68.8	el V		0.70		