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.

Phone: 0452 - 2561691 Mobile: +91 94434 74610



GSTIN. 33AAHCA8053H1ZR

DL No. MDU/4205/20B,MDU/3971/21B

CIN: U33110TN2009PTC072140



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Customer	M/S. VSV Labs,	Certificate No:	AMS/LAB/2888494
Name &	No.45, Ponmeni Narayanan Street,	Issuing Date:	26/11/2020
Address:	S.S Colony, Madurai – 625 016	Page No:	1 of 2

Details of Device under Calibration (DUC):

DUC:	Bio Chemistry Analyser	Id. No:	VSV/LAB/BCA/001		
Make:	ERBA Mannheim	Department:	Laboratory		
Model:	Chem – 5 plus	Calibrated On:	25/11/2020		
Sl. No:	S-201019	Calibration			
Type:	Semi Auto	Due Suggested:	24/11/2021		
Range &	 .	DUC Condition			
Least Count:		on Receipt:	OK		

Traceability Details:

Sl.No.	Test Equipment	Make	Certificate Number	Valid Up to		
1	Electrical Safety Analyser RigelSafeTest		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
1	Current	216	mA	1	Normal
2	Frequency	49.83	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	213.54	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	213.75	Volts	220 - 240	Normal
5	Mains Voltage Neutral - Earth	4.0	Volts	< 7	Normal

^{*}Electrical Safety: Please check the attached log sheet

SL.No	Parameter	Measured	Standard	Correction	Unit	
1	Lamp Voltage	11.14	12.00	-0.86	Volts	
2	Detector Sensitivity	-0.00	0.0	0.0	% Absorbance	
3	Sipper Volume	410	400	+10	70 ADSOLDANCE	
4	Peristaltic Pump pressure	15.375	15	+0.375	cmH2Ci	

Allowable Tolerance: set by Customer

Note

- 1. Calibration Points were selected as per customer request.
- 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)

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Approved by: (Technical Manager)

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est Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Uni	Polarity	Neutra	Earth	Applied Part
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	0.1420	Ω	Normal	Closed	Closed	All
			-							
2		Leakage: Earth	Normal	AC+DC	115.30	μА	Normal	Closed	Closed	All .
3		Leakage: Earth	Normal	AC+DC	108.10	μА	Reverse	Closed	Closed	All
4		Leakage: Enclosure	Normal	AC+DC	0.00	μΑ	Normal	Closed	Open	All
5		Leakage: Enclosure	Normal	AC+DC	0.00	μΑ	Reversed	Closed	Closed	All
6		Leakage: Earth	SFC	AC+DC	223.50	μ А .	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	213.81	μA	Reversed	Open	Closed	All
8	IEC60601	Leakage: Enclosure	SFC	AC+DC	116.70	μA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	121.30	μA	Reversed		Open	All
10		Current	 							
		_ 3383	Normal	AC+DC	0.216	Amps	Normal	Closed		All
11		Frequency	Normal	AC+DC	49.83	Hz	Normal	Closed		All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	213.54	V .	Normal	Closed		All
13		Mains Voltage: Live to Earth	Normal	AC+DC	213.75	v	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	4	V .	Normal	Closed	Closed	All
			·							
15	IEC62353	Equipment Leakage	Direct Method	AC+DC	138.00	μА	Normal	Closed	Open	Ali
16		Equipment Leakage	Direct Method	AC+DC	137.70	μА	Reversed	Closed	Open	All
					115					
17		Ground Leakage	Normal	AC+DC	117.30	yA	Normal	Closed	Clused	All
18		Ground Leakage	Normal	AC+DC	114.20	A.	Reversed	Closed	losed	All
19		Ground Leakage	SFC	AC+DC	225.50	Au	Normal	Open (losed	All ,
20	NFPA-99	Ground Leakage	SFC	AC+DC	225.70	рΑ	Reversed	Open (losed	All
21		Chassis Leakage	Normal	AC+DC	0.00	μΑ	Normal	Closed	losed	All
22 -		Chassis Leakage	Normal	AC+DC	0.00	μΑ	Reversed	Closed	loced	AII
23		Chassis Leakage	SFC	AC+DC	119.30	μA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	114.90	μΑ	Reversed	Closed	Open	All
								. "		
25		Touch Leakage	Normal	AC+DC	0.00	μΑ	Normal	Closed	losed	All
26		Touch Leakage	Normaí	AC+DC	0.00	Au,	Reversed	Closed	losed	All
27		Touch Voltage	Normal	AC+DC	2.29	V	Normal	Closed	losed	All
28		Touch Voltage	Normai	AC+DC	2.29	V	Reversed	Closed	losed	All
29	IEC61010	Touch Leakage	SFC	AC+DC	111.06	μΑ	Normal	Closed)pen	AII
30		Touch Leakage	SFC	AC+DC	110.30	μA I	Reversed	Closed)pen	Ail
31		Touch Voltage	SFC	AC+DC	2.29	v	Normal	Closed)pen	All
32		Touch Voltage	SFC	AC+DC	2.29	V I	Reversed	Closed	pen	All
										,
33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	MΏ	Normal	Closed C	ośed	All
	Lilling - The	7								
34		Point to Point Earth Bond Test	Normal	AC+DC	>19.9	n	Normal	Closed CI	csed	All
2.5	Point to Point Testing	Point To Point Leakage Test	Normal	AC+DC	0	mA	Normal (Closed CI	osed	All
36		Standard Insulation Test	Normal	AC+DC	>20	MΩ	Normal (Closed Cl	beco	All
-	7.51						EALT			
Cut Pauleed	Yes	Tested On	25/11/2020	Tested By	B. E	1/64	EAL	4		
	- %				The second secon	1/2/	N -	15/		
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