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

CALIBRATION CERTIFICATE

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	44.00

Customer	M/S. Race Diagnostics,		Constitution of the
Name &	232/190, South Marret Street,	Certificate No:	AMS/LAB/2888459
Address:	Madurai - 625001	Issuing Date:	24/10/2020
Details of Dev	vice under Calibration (DUC)	Page No:	1 of 2

DUC:	Bio Chemistry Analyser		
Make:	ERBA Mannheim	Id. No:	RD/LAB/BCA/001
Model:	Chem – 5 plus	Department:	Laboratory
Sl. No:		Calibrated On:	23/10/2020
Type:	Semi Auto	Calibration	
Range &		Due Suggested:	22/10/2021
Least Count:		DUC Condition	
Traceability		on Receipt:	OK

	Sl.No.	TD -				
	51.140.	Test Equipment	Make	0 .: 6		1
	1			Certificate Number	Valid Up to	
-	1	Electrical Safety Analyser	RigelSafeTest60	PSG/CIRD/BMCC/4424/2020		1
	2	Thermo Hygrometer	LITTO		19/01/2021	
			HTC	QC/AMS-DTI-004	22/02/2021	1
	Koom	emperature: 25°C+2 D-	TT '11		22/02/2021	1

emperature: 25°C±2 Room Humidity: 30-60%

(At the time of Calibration)

ESA Test Results:

Parameter	ECAD "			
	ESA Reading	Unit	Normal Range	Condition
Current	382		1	
Frequency	49 98		10.50	Normal
Mains Voltage Line - Neutral				Normal
	-			Normal
	225.7	Volts	220 - 240	Normal
Mains Voltage Neutral - Earth	4.1	Volts	< 7	Normal
	Parameter Current Frequency Mains Voltage Line - Neutral Mains Voltage Line - Earth Mains Voltage Neutral - Earth	Current 382 Frequency 49.98 Mains Voltage Line - Neutral 225.8 Mains Voltage Line - Earth 225.7 Mains Voltage Neutral - Earth 4.1	Current 382 mA Frequency 49.98 Hz Mains Voltage Line - Neutral 225.8 Volts Mains Voltage Line - Earth 225.7 Volts Mains Voltage Neutral - Earth 4.1 Volts	Current 382 mA 1 Frequency 49.98 Hz 49-50 Mains Voltage Line - Neutral 225.8 Volts 220 - 240 Mains Voltage Line - Earth 225.7 Volts 220 - 240 Mains Voltage Neutral - Earth 4.1 Volts < 7

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

SL.No	D.	1			
SL.NO	Parameter	Measured	Standard	Correction	Unit
	Lamp Voltage	11.78	12.00	-0.22	Volts
2	Detector Sensitivity	-0.00	0.0	0.0	% Absorbance
3	Sipper Volume	330	400	-70	20 Pasol balice
4	Peristaltic Pump pressure	12.375	15	-2 625	om U20

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-





Approved by: (Technical Manager)

ESA Results:

est Numbe	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Parts
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	0.14555	Ω	Normal	Closed	Closed	All
2		Leakage: Earth	Normal	AC+DC	118.18	μА	Normal	Closed	Closed	All
3		Leakage; Earth	Normal	AC+DC	110.80	μА	Reversed	Closed	Closed	All
4		Leakage: Enclosure	Normal	AC+DC	0.00	μΑ	Normal	Closed	Open	All
5		Leakage: Enclosure	Normal	AC+DC	0.00	μΛ	Reversed	Closed	Closed	All
6		Leakage: Earth	SFC	AC+DC	229.09	μΑ	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	219.15	μА	Reversed	Open	Closed	All
8	IEC60501	Leakage: Enclosure	SFC	AC+DC	119.62	μΑ	Normal Reversed	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	124.33			Closed	Closed	
10		Current	Normal	AC+DC	0.23	Amps	Normal			
11		Frequency	Normal	AC+DC	49.9	Hz	Normal	Closed	Closed	
12		Mains Voltage: Live to Neutral	Normal	AC+DC	231.2	V	Normal	Closed	Closed	
13		Mains Voltage: Live to Earth	Normal	AC+DC	235.9 ·	- V	Normal	Closed	Close	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	4.1	V	Normal	Closed	Close	d All
15		Equipment Leakage	Direct Method	AC+DC	141.45	μА	Normal	Closed	Oper	-All
	IEC62353	Equipment Leakage	Direct Method	AC+DC	141.14	μА	Reverse	Closed	Oper	All
16		Equipment ceasage	Direct Memore							
17		Ground Leakage	Normal	AC+DC	120.23	μА	Normal	Closed	Clase	xd All
18		Ground Leakage	Normal	AC+DC	117.06	μА	Reverse	d Closed	Close	ed All
19		Ground Leakage	SFC	AC+DC	231.14	μА	Norma	Open	Close	ed All
20	NFPA-99	Ground Leakage	SFC	AC+DC	231.34	μА	Reverse	d Open	Clos	ed All
21		Chassis Leakage	Normal	AC+DC	0.00	μА	Norma	l Closed	Clos	cd All
22		Chassis Leakage	Normal	AC+DC	0.00	μА	Reverse	ed Close	Clos	ed All
23		Chassis Leakage	SFC	AC+DC	122.28	μА	Norma			
24	1	Chassis Leakage	SFC	AC+DC	117.77	μА	Revers	ed Close	d Op	en Ali
25		Touch Leakage	Normal	AC+DC	0.00	μА	Norm	al Close	d Clo	scd All
26		Fouch Leakage	Normal	AC+DC	0.00	μА	Revers	sed Close	d Clo	sed All
27		Touch Voltage	Normal	AC+DC	2.35	V	Nom	al Clos	ed Cla	osed All
28	IEC61010	Touch Voltage	Normal	AC+DC	2.35	V	Revor	sod Clos	ed Cl	osed All
29		Touch Lenkage	SFC	AC+DC	113,84	μА	Nom	nal Clos	ed O	pen All
30		Touch Leakage	SFC	AC+DC	113.06	μА	Revei		sed C	pen All
31		Touch Voltage	SFC	AC+DC	2.35	V	Non			pen All
32		Touch Voltage	SFC	AC+DC	2.35	V	Reve	rsed Clo	sed C)pen Ali
3	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	МΩ	Nor	mal Clo	sed C	losed All
177	OTHI,	,								
4	1/03	Point to Point Earth Bond Test	Normal	AC+DC	>19,9	Ω	No	rmal Cl	osed	Closed All
5	Point to Point Testing	Point To Point Leakage Test	Normal	AC+DC	0	mA	No	rmal C	osed	Closed All
	3	Standard Insulation Test	Normal	AC+DC	>20	МΩ	No	ormal C	losal	Closed Al

Test Passed Yes Tested On 1/10/2020 Tested By B. C. F. A. L. A.

