

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



Customer Name & Address:	M/S. BHARATH Computerised Clinical Lab, #26, Gomathi Complex, Dr.Radhakrishnan Rd, Teachers Colony, Erode – 638 011.	Certificate No:	AMS/LAB/2889539
		Issuing Date:	19/07/2021
		Page No:	1 of 1

Details of Device under Calibration (DUC):

DUC:	Bio Chemistry Analyser	Id. No:	BCL/LAB/BCA/001
Make:	STAT FAX	Department:	Laboratory
Model:	ST Plus	Calibrated On:	17/07/2021
Sl. No:	---	Calibration Due Suggested:	16/07/2022
Type:	Semi Auto – Cuvette Model	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/5507/2021	18/01/2022
2	Thermo Hygrometer	Beetech/088	PC/01/21/ATL/0194-01	22/01/2022

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	236	mA	500	Normal
2	Frequency	49.99	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	239.8	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	150.5	Volts	220 - 240	Abnormal
5	Mains Voltage Neutral - Earth	90.5	Volts	< 7	No Earth

*Electrical Safety. Please check the attached log sheet

SL.No	Parameter	Measured	Standard	Correction	Unit
1	Lamp Voltage	11.68	12.0	-0.32	Volts
2	Detector Sensitivity	-0.00	0.0	0.0	% Absorbance

Allowable Tolerance: set by Customer

Note:

1. Calibration Points were selected as per customer request.
2. Each reading is 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 measurement.



Calibrated By:

(Calibration Engineer)

B. E. G.



Approved by:

(Technical Manager)

B. E. G.

EQA Results:

Test Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Parts
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	3.2128	Ω	Normal	Closed	Closed	All
2	IEC60601	Leakage: Earth	Normal	AC+DC	2608.66	µA	Normal	Closed	Closed	All
3		Leakage: Earth	Normal	AC+DC	2445.67	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	5056.69	µA	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	4837.41	µA	Reversed	Open	Closed	All
8		Leakage: Enclosure	SFC	AC+DC	2640.34	µA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	2744.41	µA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	0.236	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	49.99	Hz	Normal	Closed	Closed	All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	239.8	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	150.5	V	Abnormal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	90.5	V	Abnormal	Closed	Closed	All
15		IEC62353	Equipment Leakage	Direct Method	AC+DC	3122.25	µA	Normal	Closed	Open
16	Equipment Leakage		Direct Method	AC+DC	3115.46	µA	Reversed	Closed	Open	All
17	NFPA-69	Ground Leakage	Normal	AC+DC	2653.91	µA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	2583.78	µA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	5101.94	µA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	5106.46	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	2699.16	µA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	2599.61	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	51.77	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	51.77	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	2512.72	µA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	2495.64	µA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	51.77	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	51.77	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: 17/07/2021 Tested By:



B. S. S.

INSTALLATION QUALIFICATION (IQ)

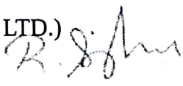
INSTRUMENT DESCRIPTION

MODEL NO : STAT FAX 2000 PLUS
SERIAL NO : 1588
MANUFACTURER : AWARENESS TECHNOLOGIES INC, USA
DISTRIBUTOR : CPC DIAGNOSTICS PVT. LTD
No. 324, KHADI GRAMMODYOG COMPLEX,
AVVAI SHANMUGAM SALAI, GOPALPURAM,
CHENNAI-86

CUSTOMER NAME : **BHARATH COMPUTERISED** **LABORATORY**
CLINICAL

DATE OF INSTALLATION : 21/04/2007

ENGINEER (FOR CPC DIAGNOSTICS PVT. LTD.)

SIGNATURE : 

NAME : Mr. S. RAGHUL

DESIGNATION : AREA SERVICE MANAGER

COMPANY : CPC DIAGNOSTICS PVT. LTD.

CUSTOMER (**BHARATH COMPUTERISED CLINICAL**
LABORATORY)

SIGNATURE : 

NAME : **K. THIYAGARAJAN**

DESIGNATION : **PROPERIATOR**

BHARATH
Computerised Clinical Laboratory
7, Dr. Radhakrishnan Road,
Teachers Colony, ERODE - 11.
Ph:0424-2277051, Cell:94430 16221

INSTALLATION REQUIRMENTS

Installation Environment Conditions

Place should not be subjected to direct sunlight
Place should be flat and minimum of dust.

Power Supply

Voltage 220-240V AC
1.0 KVA Online UPS.

Temperature and Humidity Conditions

The temperature of the analyser room should be between 18 - 30°C

The temperature fluctuation during the analysis should be $\pm 2^\circ\text{C}$

1. Dimensions of System Main Units (Unit: mm)

40cm (L) X 37cm (W) X 14cm (H), (30 cm lid opened) 6.4 Kg .

VERIFIED BY: Mr. S. RAGHUL

REVIEWED BY:

(FOR BHARATH COMPUTERISED CLINICAL

LABORATORY)



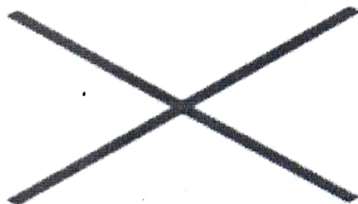
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Ph:0424-2277051, Cell:94430 16221

SIGNATURE:



PERFORMANCE QUALIFICATION

FILTER VOLTAGES – All wave length voltage should be within 2 to 10 volts



PRECISION CHECK

This module is highlighting the reproducibility and pipetting accuracy of the system. Measuring criteria

- 1. One end point chemistry
- 2. One kinetic chemistry
- 3. Large sample chemistry

BY DOING PRECISION CHECK WITH GLUCOSE, ALT, CREATININE ABOVE REQUIREMENT WILL BE COMPLETED.

HERE BY I'm VERIFYING THAT THE CONTROL RESULT OF THE EXECUTED PARAMETERS ARE WITHIN THE SD RANGE AND CV RANGE.

VERIFIED BY: Mr. S. RAGHUL

REVIEWED BY:

CLINICAL

(FOR BHARATH COMPUTERISED LABORATORY)

SIGNATURE:



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OPERATIONAL QUALIFICATION

ANALYSER CHECK

REMARK

FILTER VOLTAGES
TEMPERATURE IN CUVET HOLDER
TEMPERATURE IN INCUBATOR
LAMP CONDITION

OK
OK
OK
GOOD

VERIFIED BY: Mr. S. RAGHUL

REVIEWED BY:

(FOR BHARATH COMPUTERISED CLINICAL

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