

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 measurements.



Calibrated By:
(Calibration Engineer)

B. Raj



Approved by:
(Technical Manager)

B. Raj

ESA 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	All
16		Equipment Leakage	Direct Method	AC+DC	3115.46	µA	Reversed	Closed	Open	All

17	NFPA-59	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
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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. B. 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**
CLINICAL **LABORATORY**

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 : **PROPRIETOR**

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 ± 2°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)

K. Thirujagan

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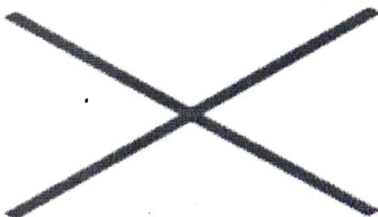
SIGNATURE:

R. S. Raghul

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	OK
TEMPERATURE IN CUVET HOLDER	OK
TEMPERATURE IN INCUBATOR	OK
LAMP CONDITION	GOOD

VERIFIED BY: Mr. S. RAGHUL

REVIEWED BY:

(FOR BHARATH COMPUTERISED CLINICAL

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NAME OF THE IQC ; CMC

LOT :

EXPIRARY ;

MONTH OF ; APRIL-2022

TEST	GLUCOSE	UREA	CREATININE	T.BILURUBIN	T.PROTEN	ALBUMN	URIC ACID	CHOLESTEROL	TRIGLYCERIDES
MEAN	114	29	1.4	1.7	4.9	3.2	4.9	111	151
RANGE(2SD)	104-124	23-35	1.2-1.6	1.4-2.0	4.2-5.6	2.6-3.8	4.4-5.4	101-121	138-164
UNITS	Mgs/d1	Mgs/d 1	Mgs/d1	Mgs/d1	Gms/d1	Gms/d1	Mgs/d1	Mgs/d1	Mgs/d1
01.04.21	116	26	1.5	1.6	4.7	3.0	5.0	115	147
02.04.21	109	28	1.4	1.6	4.7	2.9	4.8	109	149
03.04.21	117	30	1.3	1.8	5.1	3.2	4.9	115	154
04.04.21	115	27	1.4	1.5	5.0	3.0	5.2	118	149
05.04.21	118	31	1.5	1.8	4.6	3.5	4.8	114	147
06.04.21	112	30	1.4	1.6	4.8	2.8	5.0	119	152
07.04.21	109	27	1.3	1.5	4.7	3.3	4.7	108	148
08.04.21	111	28	1.5	1.6	4.6	2.9	5.1	114	154
09.04.21	110	31	1.4	1.8	5.1	3.1	4.9	112	157
10.04.21	118	32	1.3	1.7	5.1	2.8	5.1	109	148
11.04.21	119	27	1.5	1.7	4.8	3.2	4.8	114	147
12.04.21	117	29	1.3	1.6	4.7	3.1	4.6	114	149
13.04.21	109	26	1.5	1.5	4.8	2.9	4.9	116	152
14.04.21	121	28	1.4	1.7	4.6	3.4	5.2	109	157
15.04.21	112	29	1.3	1.6	5.2	2.9	4.7	108	147
16.04.21	116	31	1.5	1.7	5.0	2.8	4.7	110	152
17.04.21	114	32	1.3	1.6	4.9	3.2	4.6	117	157
18.04.21	116	31	1.5	1.5	5.1	2.8	5.1	114	149
19.04.21	119	28	1.4	1.6	4.8	3.2	4.8	109	148
20.04.21	120	26	1.3	1.8	5.2	3.1	4.7	114	159
21.04.21	117	29	1.5	1.6	5.3	2.9	4.9	107	145
22.04.21	118	31	1.5	1.8	5.1	2.8	4.8	114	149
23.04.21	114	30	1.4	1.7	4.7	3.2	5.0	117	154
24.04.21	109	26	1.4	1.6	4.9	3.5	5.1	109	157
25.04.21	115	27	1.5	1.9	4.8	2.9	4.7	110	152
26.04.21	108	28	1.3	1.8	4.7	3.2	5.2	112	149
27.04.21	116	27	1.5	1.7	5.1	3.0	4.8	109	150
28.04.21	119	28	1.4	1.5	5.0	3.4	4.9	108	157
29.04.21	120	31	1.5	1.6	4.7	3.1	4.8	116	148
30.04.21	116	30	1.5	1.7	4.9	2.9	5.1	108	154