SUNSHINE

NABL CC-2914

CALIBRATION REPORT

Details of the Unit Under Calibration:

Calibration Certificate No: SBS/CL/20-21/01061

Customer Name:	SREE METRO DIAGNOSTIC CENTRE	**Customer Address:**	16/41, KRISHNA ROAD, NEW PERUNGALATHUR, CHENNAI-63
Location:	LAB-1	**Serial No:**	081011
Description:	BIO CHEMISTRY ANALYSER	**Tag/Asset No:**	SMDC/LAB-1/BCA/01
Make:	MICROLAB INSTRUMENTS	**Date of Calibration:**	30.09.2020
Model:	RX-50	**Date of Due:**	29.09.2021

Traceability Details:

S.No	Standard Used	Make	Model	Serial No	Validity
1	Electrical Safety Analyzer	Fluke	ESA615	2244202	26-Jun-2021

Environmental Conditions and Standard Operating Procedure Details:

Temperature	23°C	**Calibration Done At**	ONSITE
Humidity (40-70% RH)	54%	**Calibration Procedure No**	CP-BM001-2019/ES

REMARKS:

Performance Test Report : Attached

Electrical Safety Test Report : Attached

Electrical Safety Test Passed as Per IEC Standard 60601/62353

The above mentioned instruments has been calibrated using standard manufacturer recommended protocols, using equipments having traceability to National/International Standards. Partial reproduction of the certificates is not permitted.

Calibrated by:

M.BALAJI

(Calibration Engineer)

Authorized Signatory:

C.SHANMUGARAJ

(Technical Manager)

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Result of Calibration: SBS/TR/20-21/01061

Electrical Safety Test Passed : ☑ Yes / ☐ No

Electrical Safety Test		
Parameters Used	**Measured in Test Gadget**	**Limits**
Voltage N-E	2.7	< 3V
Voltage P-N	223	< 230V
Voltage P-E	227	< 230V
Maximum Current Taken by the DUT	0.1	As per Manufacture specification
Earth Leakage Current NC	124	<500µA for B,BF,CF
Earth Leakage Current SFC	232	<1000µA for B,BF,CF
Enclosure Leakage Current NC	5.2	<100µA for B,BF,CF
Enclosure Leakage Current SFC	5.5	<500µA for B,BF,CF
Patient Leakage Current NC	5.6	<100µA for B,BF, <10µA for CF
Patient Leakage Current SFC	5.8	<500µA for B,BF, <50µA for CF
Insulation Resistance M-P.E	Good	More than 100Mohm
Insulation Resistance M-A.P	Good	More than 100Mohm
Insulation Resistance A.P-P.E	Good	More than 100Mohm

Observation: The unit was found to delivery energy within allowed deviation limits.

CALIBRATION RESULT:

☐ Corrective maintenance required

☐ Removed from use

☑ Acceptable for use

Calibration Engineer Sign:

Date: 30.09.2020

GENUINE BIOSYSTEM (P) LTD.

CALIBRATION REPORT- SREE METRO DIAGNOSTIC CENTRE

1. Instrument: Bio-Chemistry Analyzer

2. Model: RX-50

3. S.no: 081011

4. Manufacturing Date: 01.08.13

5. Date of Calibration: 23.01.2021, Next Calibration date: 22.01.2022

TEST PARAMETERS

Test Parameters	Actual Parameters			Ok/Not Ok
Lamp Voltage (11.8 to 12.2)	12 V			Ok
SMPS Voltage(15.31V)	12.0 V			Ok
Flow cell temperature	25'C 1650	30'C 1460	37'C 1125	All ok
Pump Calibration value(3500 to 5700)	5233			Ok

S.no	Filters	AD	Gain Voltages	OFF SET
1	340nm	50627	14	32
2	405nm	49834	11	25
3	450nm	52551	20	46
4	505nm	50663	7	16
5	546nm	45199	3	7
6	578nm	51041	6	17
7	630nm	42315	2	5
8	000nm			

Normal Range: AD (35000-55000)

Offset (0, 4000)

GENUINE BIOSYSTEM PVT. LTD. CHENNAI

23/01/2021

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genuinebiosystem@gmail.com
www.genuinebiosystem.com

Photometric Accuracy:

The readings of the absorbance are taken of following standard filters at the frequency of 546nm. The results are compared with its range.

Range of the Instrument : Optical Density linear from 0 to 3.0

Std Absorbance	Measured Absorbance	Range
0.35	0.36	0.300-0.400
0.72	0.70	0.65-0.75
1.5	1.480	1.20-1.8
2.0	2.2	2.0-2.50

Precision Control:

The absorbance of two standard filters of 0.4 and 2.0 is taken. The 20 replicates of each is made and mentioned as CV (%).

Std Absorbance	CV(%)
0.4	0.02%
2	0.006%

Clinical chemistry control:

	Level-1			Level-2		
CHEMISTRY	Measured	Mean	Range	Measured	Mean	Range
GLU	85	93.9	84.6-103	285	291	262-300
SGPT	33	31.6	24.4-38.8	102	96.9	82.6-111
CRTN	2.0	1.68	1.19-2.17	4.8	5.24	4.61-5.87

PVT.LTD. GENUINE BIOSYSTEM CHENNAI

23/01/2021

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