



CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/22-23/03294	MEDICAL DEVICES	Page No:1 of 1
Issue Date	30-04-2022	
SRF No & Date	SBS/SRF/22-23/0049-004 & 29-04-2022	
Receipt Date	29-04-2022	
Calibration Date	29-04-2022	
Calibration Due	28-04-2023	

Customer Name & Address

KUMARAN DIAGNOSTIC CENTRE,
NO-3,NATTAR STREET,DHANDEESWARAM BUS STOP,VELACHERY,CHENNAI-600 042.

Details of Device Under Calibration (DUC)

Description : SEMI AUTO ANALYZER	Make & Model : ERBA MANNHEIM & CHEM-5 PLUS
Range : -	Sr. No : 061111
Least Count : -	Asset No :
DUC Condition : SATISFACTORY	Location : LAB

Environmental Conditions & Calibration Procedure Details

Environmental Details	Temperature: 25.5° C	Relative Humidity	53% RH
Calibration Procedure No	SBS/CP/MD/29	Calibration done at	ONSITE

Reference Standards Details

S.No	Description	Make/ SI No:	Certificate No	Validity
1	Electrical Safety Analyser	Rigel Medical & 44L-1059	M-210809-17-3	10-08-2022

RESULTS

S.no	Specification	Measured values in Ω	Allowable limit in Ω	Uncertainty in $\Omega (\pm)$	Remarks
1	Earth Bond Resistance	0.145	<2 Ω	0.02	PASS FAIL
		Measured values in M Ω	Allowable limit in M Ω	Uncertainty in M $\Omega (\pm)$	Remarks
2	Insulation Resistance	29.0	>2M Ω	4.03	PASS FAIL
		Measured values in μ A	Allowable limit in μ A	Uncertainty in μ A (\pm)	Remarks
3	Earth Leakage (NC)	106	<5000 μ Afor B,BF,CF	14.81	PASS FAIL
4	Earth Leakage (SFC)	211	<10000 μ Afor B,BF,CF	19.28	PASS FAIL
		Measured values in μ A	Allowable limit in μ A	Uncertainty in μ A (\pm)	Remarks
5	Enclosure Leakage(NC)	4	<100 μ Afor B,BF,CF	2.87	PASS FAIL
6	Enclosure Leakage(SFC)	221	<500 μ Afor B,BF,CF	19.28	PASS FAIL

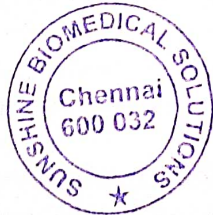
REMARKS

- 1.This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated in this certificate relate only to the item calibrated.
- 5.The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00 .
6. Equipment used for Calibration were calibrated & traceable to National & International Standards

Calibrated By

S. Laksmanan
(Calibration Engineer)

S.LAKSHMANAN MURUGAN



Authorised Signatory

Quality Manager
(D.VETRI SELVI)

Chief Executive

Glucose

Test Name: GLU
Res: 6.470
Factor: 4.700
No.: 0.421
Res: 111.4 mg/dl
Read Sample

T. Bilirubin

Test Name: BILI
Res: 0.115
Factor: 4.500
No.: 0.066
Res: 1.724 mg/dl
Read Sample

Uric acid

Test Name: URIC
Res: 0.146
Factor: 41.14
No.: 0.131
Res: 5.373 mg/dl
Read Sample

Urea

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DUMNIT
Test Name: UREA
Factor No.: 0.206
Norm. No.: 1.94.4
ABS: 0.156

Res: 30.27 mg/dl

Read Sample

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T. Protein

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DUMNIT
Test Name: PRO
Factor No.: 0.485
Norm. No.: 12.36
ABS: 0.441

Res: 5.447 g/dl

Read Sample

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Cholesterol

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DUMNIT
Test Name: CHO
Factor No.: 0.349
Norm. No.: 172.7
ABS: 0.201

Res: 115.2 mg/dl

Read Sample

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Creatinine

Test Name: CRAT
Std Res: 0.898
Factor: 1.351
Sr. No.: 1
HIS: 0.869
Res: 1.235 mg/dl

Read Sample

Albumin

Test Name: ALB
Std Res: 0.686
Factor: 4.372
Sr. No.: 1
HIS: 0.869
Res: 3.800 g/dl

Triglyceride

Test Name: TGL
Std Res: 0.267
Factor: 1.491
Sr. No.: 1
HIS: 0.196
Res: 147.2 mg/dl

Read Sample