



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 MΩ	Allowable limit in MΩ	Uncertainty in M$\Omega (\pm)$	Remarks
2	Insulation Resistance	29.0	>2M Ω	4.03	PASS FAIL
		Measured values in μA	Allowable limit in μA	Uncertainty in μA (\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 μA	Allowable limit in μA	Uncertainty in μA (\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

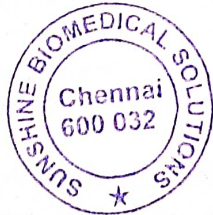
REMARKS

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