



## 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.

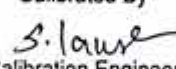
Details of Device Under Calibration (DUC)			
Description	SEMI AUTO ANALYZER	Make & Model	ERBA MANNHEIM & CHEM-5 PLUS
Range	-	Sr. No	061111
Least Count	-	Asset No	
DUC Condition	SATISFACTORY	Location	LAB

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 $\Omega$	Allowable limit in $\Omega$	Uncertainty in $\Omega (\pm)$	Remarks
1	Earth Bond Resistance	0.145	<2 $\Omega$	0.02	PASS   FAIL
		Measured values in M $\Omega$	Allowable limit in M $\Omega$	Uncertainty in M $\Omega (\pm)$	Remarks
2	Insulation Resistance	29.0	>2M $\Omega$	4.03	PASS   FAIL
		Measured values in $\mu$ A	Allowable limit in $\mu$ A	Uncertainty in $\mu$ A ( $\pm$ )	Remarks
3	Earth Leakage (NC)	106	<5000 $\mu$ Afor B,BF,CF	14.81	PASS   FAIL
4	Earth Leakage (SFC)	211	<10000 $\mu$ Afor B,BF,CF	19.28	PASS   FAIL
		Measured values in $\mu$ A	Allowable limit in $\mu$ A	Uncertainty in $\mu$ A ( $\pm$ )	Remarks
5	Enclosure Leakage(NC)	4	<100 $\mu$ Afor B,BF,CF	2.87	PASS   FAIL
6	Enclosure Leakage(SFC)	221	<500 $\mu$ 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

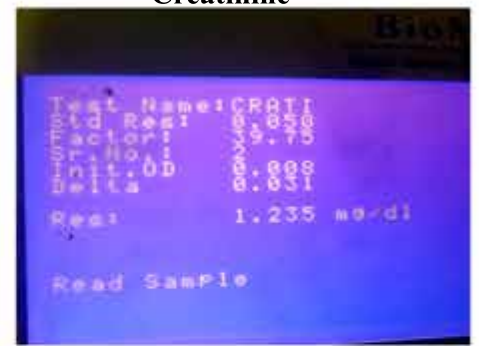
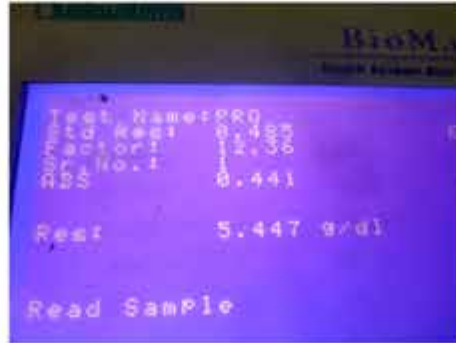
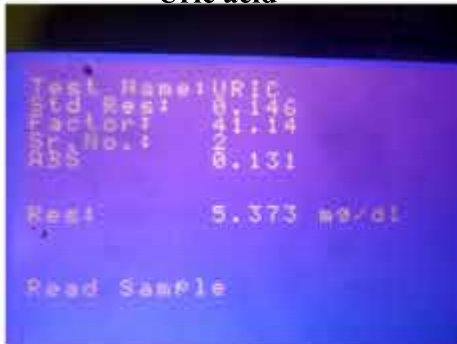
Calibrated By  
  
 (Calibration Engineer)  
 S.LAKSHMANAN MURUGAN



Authorised Signatory

Quality Manager  
 (D.VETRI SELVI)

Chief Executive

**Glucose****Urea****Creatinine****T. Bilirubin****T. Protein****Albumin****Uric acid****Cholesterol****Triglyceride**

### CMC Assayed IQC for precision checking – PRECICON A

S.No	Analyte	Mean	Range(2SD)	Unit
1	Glucose	114	104 - 124	mg/dL
2	Urea	29	23 - 35	mg/dL
3	Creatinine	1.4	1.2 - 1.6	mg/dL
4	T. Bilirubin	1.7	1.4 - 2.0	mg/dL
5	T. Protein	4.9	4.2 - 5.6	g/dL
6	Albumin	3.2	2.6 - 3.8	g/dL
7	Uric acid	4.9	4.4 - 5.4	md/dL
8	Cholesterol	111	101 - 121	mg/dL
9	Triglyceride	151	138 - 164	mg/dL

We have given a format for LJ graph. Kindly plot on the LJ graph as and when you do IQC.