



Plot No:3,EPIP Zone,Pashamylaram,sangareddy(dist)  
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12/01/2023

## CALIBRATION CERTIFICATE

### CUSTOMER DETAILS

M/S. MDC LABORATORY,MANANTHAVADY

INSTRUMENT : ST-200CL PLUS ELECTROLYTE ANALYZER

SINO :STCLP-0540

### CALIBRTION SLOPE OBTAINED

Na :58 mmol/L

K :54 mmol/L

Cl :56 mmol/L

Three levels of QC conducted and obtained satisfactory

Next due on :11/02/2024

Service engineer

Name: *Stenap. P.R*

A handwritten signature in blue ink, appearing to read "Stenap. P.R", written over a horizontal line.

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>ST 200 CL Plus ELECTROLYTE ANALYZER</b>	
<b>SERIAL NUMBER:</b>	<b>STCLP-0540</b>	
<b>SOFTWARE VERSION:</b>	<b>24SW5.5USF.3R.M026</b>	
<b>CHECK OF SETTING IN "SYSTEM" AND "SETUP" MENU:</b>	<b>PASSED</b>	√
<b>CALIBRATION DATA TEST:</b>	<b>PASSED</b>	√
<b>MEASUREMENT PROCESS TEST:</b>	<b>PASSED</b>	√
<b>INTERNAL PRINTER TEST:</b>	<b>PASSED</b>	√
<b>SERIAL COMMUNICATION TEST:</b>	<b>PASSED</b>	√
<b>CHECK OF SN CONFORMITY IN LABEL, PACKAGE AND PRINTOUT CE LOGO:</b>	<b>PASSED</b>	√
<b>APPEARANCE CHECK OF INSTRUMENT AND ACCESSORIES:</b>	<b>PASSED</b>	√
<b>COMPARISON OF PACKAGE CONTENT TO PACKING CHECKLIST:</b>	<b>PASSED</b>	√

This unit with the serial number indicated above has been checked and released for sale by Sensacore Medical Instrumentation Pvt ltd. The specified values of the "internal check" (see user manual) are within the acceptable confidence range and the unit is able to function correctly under the conditions described in the user manual.

**Date : 09.11.2022**

**Department Incharge:**



**Instrument Name : ST 200 CL PLUS Na/K/iCa/Li/pH/Cl Electrolyte Analyzer**

**Performance Certificate**

<b>Instrument Number :</b> STCLP-0540	<b>Date of Testing</b> 09-11-2022
	<b>Parameters :</b>
<b>Software Version :</b> 24SW5.SUSF.3R.M026	<b>"Na" Electrode :</b> Na2208T04
<b>Tested Reagent Lot :</b> R2210E	<b>"K" Electrode :</b> K2210C38
<b>Bubble Detector :</b> US5BD2209627	<b>"iCa" Electrode :</b> -----
<b>"Ref" Electrode :</b> RE5CH2210C04	<b>"Li" Electrode :</b> -----
	<b>"pH" Electrode :</b> -----
	<b>"Cl" Electrode :</b> C12209E05

**MB NUMBER:** UMB13V2211019

**Calibration Slope :**

S.No	Na	K	iCa	Li	pH	Cl
1	69.25	72.26	35.15	61.25	73.80	56.28
2	69.52	73.06	36.36	61.36	73.91	56.27
3	69.59	73.36	35.05	61.45	74.31	56.36
Mean	69.45	72.89	35.52	61.35	74.01	56.30
Ranges	35 - 100 mV/decade	35 - 100 mV/decade	15 - 50 mV/decade	30 - 100 mV/decade	30 - 100 mV/decade	30 - 100 mV/decade
Status	OK	OK	OK	OK	OK	OK

**Quality Control (I) :** Lot:UQC2210A-L1

Exp: Sep 2024

S.No	Na	K	iCa	Li	pH	Cl
1	121.25	2.11	1.93	0.40	7.01	81.78
2	121.36	2.11	1.95	0.41	7.01	82.86
3	121.45	2.10	1.95	0.41	7.01	81.36
Mean	121.35	2.11	1.94	0.41	7.01	82.00
Ranges	110 - 128 mmol/L	1.58 - 2.58 mmol/L	1.40 - 2.40 mmol/L	0.18 - 0.88 mmol/L	6.95 - 7.05	74 - 92 mmol/L
Status	OK	OK	OK	OK	OK	OK

**Quality Control (II) :** Lot:UQC2210A-L2

Exp: Sep 2024

S.No	Na	K	iCa	Li	pH	Cl
1	142.63	4.23	1.24	1.84	7.22	101.96
2	142.25	4.18	1.24	1.85	7.22	103.35
3	142.85	4.21	1.26	1.84	7.22	102.52
Mean	142.58	4.21	1.25	1.84	7.22	102.61
Ranges	133 - 147 mmol/L	3.47 - 4.47 mmol/L	0.71 - 1.71 mmol/L	1.21 - 1.91 mmol/L	7.17 - 7.27	95 - 109 mmol/L
Status	OK	OK	OK	OK	OK	OK

**Quality Control (III) :** Lot:UQC2210A-L3

Exp: Sep 2024

S.No	Na	K	iCa	Li	pH	Cl
1	160.52	6.13	0.77	2.18	7.40	121.15
2	160.36	6.09	0.78	2.13	7.40	121.16
3	160.15	6.11	0.78	2.15	7.40	121.36
Mean	160.34	6.11	0.78	2.15	7.40	121.22
Ranges	150 - 168 mmol/L	5.38 - 6.38 mmol/L	0.20 - 1.20 mmol/L	1.66 - 2.36 mmol/L	7.35 - 7.45	111 - 129 mmol/L
Status	OK	OK	OK	OK	OK	OK

Serum :

S.No	Na	K	iCa	Li	pH	Cl
1	-----	-----	-----	-----	-----	-----
2	-----	-----	-----	-----	-----	-----
3	-----	-----	-----	-----	-----	-----
Mean	-----	-----	-----	-----	-----	-----
Ranges	-----	-----	-----	-----	-----	-----
Status	-----	-----	-----	-----	-----	-----

BIO RAD Level (I) :

Lot: 89701

Exp: May 2024

S.No	Na	K	iCa	Li	pH	Cl
1	152.56	4.18	0.88	0.45	-----	97.25
2	153.36	4.17	0.87	0.44	-----	97.63
3	152.45	4.18	0.88	0.45	-----	97.25
Mean	152.79	4.18	0.88	0.45	-----	97.38
Ranges	136 - 156 mmol/L	3.63 - 4.24 mmol/L	0.60 - 1.12 mmol/L	0.37 - 0.87 mmol/L	-----	90 - 105 mmol/L
Status	OK	OK	OK	OK	-----	OK

BIO RAD Level (II) :

Lot: 89702

Exp: May 2024

S.No	Na	K	iCa	Li	pH	Cl
1	132.26	5.86	1.06	1.49	-----	86.25
2	131.63	5.83	1.05	1.48	-----	86.36
3	131.45	5.85	1.06	1.49	-----	86.35
Mean	131.78	5.85	1.06	1.49	-----	86.32
Ranges	124 - 138 mmol/L	5.20 - 6.40 mmol/L	0.90 - 1.32 mmol/L	1.30 - 2.55 mmol/L	-----	80 - 90 mmol/L
Status	OK	OK	OK	OK	-----	OK

Urine Quality Control (I) : Lot:QC2210A-UL-1

Exp: Sep 2024

S.No	Na	K	iCa	Li	pH	Cl
1	381.08	64.25	-----	-----	-----	377.52
2	382.71	64.04	-----	-----	-----	376.02
3	381.86	64.36	-----	-----	-----	376.74
Mean	381.88	64.22	-----	-----	-----	376.76
Ranges	280 - 450 mmol/L	55 - 85 mmol/L	-----	-----	-----	300-450 mmol/L
Status	OK	OK	-----	-----	-----	OK

Urine Quality Control (II) : Lot:QC2210A-UL-2

Exp: Sep 2024

S.No	Na	K	iCa	Li	pH	Cl
1	699.19	345.70	-----	-----	-----	856.96
2	697.12	349.16	-----	-----	-----	857.78
3	699.09	346.92	-----	-----	-----	858.25
Mean	698.47	347.26	-----	-----	-----	857.66
Ranges	580 - 750 mmol/L	280 - 550 mmol/L	-----	-----	-----	700 - 900 mmol/L
Status	OK	OK	-----	-----	-----	OK

NOTE: iCa/Li/PH/Cl results are the results tested by internal QC Electrodes.

Tested By

*Sethan*  
09/11/2022

Reviewed By:

*Ked Rao*  
09/11/2022

Approved By:

