

# INSTALLATION REPORT

**ST-200** aQua<sup>®</sup>  
Electrolyte Analyzer

NAME & ADDRESS OF THE INSTALLATION PLACE:

Cosmos Clinics & Diagnostics  
# 503, SMV Arcade, Andrahalli Main  
Syndicate Bank Layout, Nayab Rd. Rd,  
Bangalore - 560091

NAME OF THE ANALYZER :

ST-200 Aqua

S. No. 2021051931

PARAMETERS :

K / Na / iCa :

S12104N27

Li / pH / Cl :

SSARN2105A25

BUBBLE DETECTOR :

V55BD2104492

REFERENCE :

Ref 4ch 2104E13

INSTALLED ON :

08-06-2021

WARRANTY ENDS ON :

07-06-2023

COMMENTS IF ANY :

calibration and quality  
control slopes are within ranges.

INSTALLED BY

(NAME):

P. Suresh

NAME OF THE

DISTRIBUTOR:

Bindusri Bio Medicals

SIGNATURE:

*[Signature]*

DATE:

08/06/2021

SEAL:

INSTALLED

AT:

Cosmos clinic & Diagnostics

SIGNATURE:

*[Signature]*

NAME:

Rakeshith mmm

DESIGNATION:

manager

SEAL:

**COSMOS CLINICS & DIAGNOSTICS**  
(A Unit of Phoenix Diagnostics)

No. 503, SMV Arcade, Andrahalli Main Road,

Syndicate Bank Layout, Bengaluru - 560 091.

## INSTALLATION

S.No	DESCRIPTION	STATUS	REMARKS
1	Physical Check	✓	OK
2	Short Supply of accessories	✓	NO
3	Check the voltage and earthing at the supply point.	✓	OK
4	<b>Check the internal parts of the system for any loose connections</b>	✓	No
5	Check the input Voltage	✓	OK
6	Install printer paper with its Axel	✓	OK
7	Switch ON the system	✓	OK
8	Check the Date & Time	✓	OK
9	Check any leakage is present	✓	NO
10	Run a calibration & Test	✓	OK
11	Make a copy of the documents enclosed with Analyzer	✓	OK
12	Get a signature of acceptance of accessories	✓	OK
13	Submit Installation report & warranty Card	✓	OK

.....  
**Signature:**  
**Date:**

.....  
**Signature:**  
**Date:** 08/06/24



# SENSA CORE

Healthcare and Diagnostic Products

F03-R01/SC/QA/SOP/004

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>ST-200 aQua ELECTROLYTE ANALYZER</b>	
<b>SERIAL NUMBER:</b>	<b>STAQW-1931</b>	
<b>SOFTWARE VERSION:</b>	<b>AQUA.001</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>COMPARISION 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 : 24.05.2021

Department Incharge :



Serum :

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

BIO RAD Level (I) :

Lot: 26471

Exp: Feb 2023

S.No	Na+	K+	iCa	Li	pH	Cl-
1	148.25	3.99	0.91	-----	-----	95.36
2	149.63	4.05	0.90	-----	-----	95.63
3	148.35	4.02	0.91	-----	-----	95.34
Mean	148.74	4.02	0.91	-----	-----	95.44
Ranges	133 - 153 mmol/L	3.65 - 4.26 mmol/L	0.75 - 1.12 mmol/L	-----	-----	89- 105 mmol/L
Status	OK	OK	OK	-----	-----	OK

BIO RAD Level (II) :

Lot: 26472

Exp: Feb 2023

S.No	Na+	K+	iCa	Li	pH	Cl-
1	131.25	5.82	1.13	-----	-----	83.63
2	130.25	5.83	1.11	-----	-----	83.35
3	131.36	5.86	1.12	-----	-----	83.64
Mean	130.95	5.84	1.12	-----	-----	83.54
Ranges	118 - 135 mmol/L	5.54 - 6.41 mmol/L	0.90 - 1.32 mmol/L	-----	-----	76 - 92 mmol/L
Status	OK	OK	OK	-----	-----	OK

Urine Quality Control (I) : Lot:UQC2103B-UL-1

Exp: Feb 2023

S.No	Na+	K+	iCa	Li	pH	Cl-
1	363.36	65.36	112.25	-----	-----	335.63
2	357.25	65.35	112.63	-----	-----	335.62
3	358.63	64.26	112.52	-----	-----	335.61
Mean	359.75	64.99	112.47	-----	-----	335.62
Ranges	280 - 450 mmol/d	55 - 85 mmol/d	84 - 134 mg/day	-----	-----	300-450 mmol/d
Status	OK	OK	OK	-----	-----	OK

Urine Quality Control (II) : Lot:UQC 2103B-UL-2

Exp: Feb 2023

S.No	Na+	K+	iCa	Li	pH	Cl-
1	660.36	362.35	215.63	-----	-----	805.63
2	659.63	363.36	215.63	-----	-----	805.63
3	657.25	362.35	215.69	-----	-----	805.31
Mean	659.08	362.69	215.65	-----	-----	805.52
Ranges	580 - 750 mmol/d	280 - 550 mmol/d	180 - 230 mg/day	-----	-----	700 - 900 mmol/d
Status	OK	OK	OK	-----	-----	OK

Tested By

J. Rajesh

Reviewed By:



Approved By:

 SENSE CORE





# Euro Diagnostic Systems Pvt. Ltd.

36/37, 'Millenium House', M.K. Srinivasan Nagar Main Road, Rajiv Gandhi Salai, Perungudi, Chennai-600 096, Tamil nadu, INDIA  
Phone: 044-2496 0541, Fax: 044-2496 2825, email: eurods@vsnl.net, WWW.eurodiagnostics.in

**Date: 10/07/2021**

**Place: Bangalore**

## **Certificate of Training**

This is to certify that

➤ **Mr./Ms./Mrs.Praveen kumar**

Of **Cosmos clinics and diagnostic, located at #503, SMV Arcade, Andrahalli main raod, Syndicate bank layout, Bengaluru, Karnataka 560091** has undergone training on the operation and user maintenance of the **Fully Automated Chemistry Analyzer ST-200 AQUA.**

**For Euro Diagnostic Systems Pvt Ltd**

**Authorized Signatory**



# Euro Diagnostic Systems Pvt. Ltd.

36/37, Millenium House' M.K.Srinivasan Nagar Main Road,Rajiv Gandhi Salai,Perungudi,Chennai-600 096. Tamil nadu, INDIA  
Phone: 044-2496 0541, Fax: 044-2496 2825, email: eurods@vsnl.net,WWW.eurodiagnostics.in

**Date: 10/07/2021**

**Place: Bangalore**

## **Certificate of Training**

This is to certify that

➤ **Mr./Ms./Ms. Mamatha**

Of **Cosmos clinics and diagnostic, located at #503, SMV Arcade, Andrahalli main raod, Syndicate bank layout, Bengaluru, Karnataka 560091** has undergone training on the operation and user maintenance of the **Fully Automated Chemistry Analyzer ST-200 AQUA.**

**For Euro Diagnostic Systems Pvt Ltd**

**Authorized Signatory**





# Euro Diagnostic Systems Pvt. Ltd.

36/37, 'Millenium House', M.K. Srinivasan Nagar Main Road, Rajiv Gandhi Salai, Perungudi, Chennai-600 096. Tamil nadu, INDIA  
Phone: 044-2496 0541, Fax: 044-2496 2825, email: eurods@vsnl.net, WWW.eurodiagnostics.in

**Date: 10/07/2021**

**Place: Bangalore**

## **Certificate of Training**

This is to certify that

➤ **Mr./Ms./Mrs. Syeda Tanveer banu**

Of **Cosmos clinics and diagnostic, located at #503, SMV Arcade, Andrahalli main raod, Syndicate bank layout, Bengaluru, Karnataka 560091** has undergone training on the operation and user maintenance of the **Fully Automated Chemistry Analyzer ST-200 AQUA.**

**For Euro Diagnostic Systems Pvt Ltd**

**Authorized Signatory**



COSMOS CLINICS AND DIAGNOSTICS  
#503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru- 560091

Title	Electrolyte QC Log		
Document Type	Format	Document Number	CCD.LAB.FR.006
Prepared By	Mamatha	Checked by / Approved by	TanveerBanu / Dr.Nirupama.S
Revision No.	0	Issue Date	

Sl.no.	Date	LOW			NORMAL			HIGH			PERFORMED BY	Remarks/Pathologist Sign
		Na <sup>++</sup>	K <sup>+</sup>	Cl <sup>-</sup>	Na <sup>++</sup>	K <sup>+</sup>	Cl <sup>-</sup>	Na <sup>++</sup>	K <sup>+</sup>	Cl <sup>-</sup>		
RANGE		114-132	1.7-2.8	70-88								
Mean		119.3	2.2	79.9								
5/8/21		129	2.3	82								Praveen
6/8/21		130	2.4	84								Praveen
7/8/21		129	2.4	84								Praveen
8/8/21		131	2.5	84								Praveen
9/8/21		131	2.4	83								Praveen
16/8/21		129	2.3	85								Praveen
11/8/21		129	2.3	84								Praveen
19/8/21		130	2.4	81								Praveen
13/8/21		128.6	2.35	82								Praveen
14/8/21		129.8	2.38	82								Praveen
15/8/21		129	2.36	81								Praveen
16/8/21		131	2.49	82								Praveen

CONTROL COPY







COSMOS CLINICS AND DIAGNOSTICS  
 #S03, SMV Arcade, Antrahalli Main Road, Syndicate Bank Layout, Bengaluru- 560091

101 - Vaccination - L1  
 Exp - Mar 2023

Title	Electrolyte QC Log	Document Number	CCD.LAB.FR.006
Document Type	Format	Checked by / Approved by	TanveerBanu / Dr. Nirupama.S
Prepared By	Mamatha	Issue Date	
Revision No.	0		

Sl.no.	Date	LOW			NORMAL			HIGH		PERFORMED BY	Remarks/Pathologist Sign
		Na++	K+	Cl-	Na++	K+	Cl-	Na++	K+		
Mean	30/8/21	131	2.35	84						Tanveer	
RANGE	31/8/21	131	2.42	83.9						Tanveer	
	1/9/21	131	2.34	87.1						Tanveer	
	2/9/21	131	2.38	80.6						Tanveer	
	3/9/21	132	2.39	85.1						Tanveer	
	4/9/21	132	2.39	80.2						Tanveer	
	5/9/21	131	2.38	83.9						Tanveer	
	6/9/21	135.1	2.41	77						Tanveer	
	7/9/21	137.1	2.4	76						Tanveer	
	8/9/21	134.1	2.3	77						Tanveer	
	9/9/21	126	2.2	81						Tanveer	
	10/9/21	129	2.3	81						Tanveer	
	11/9/21	128	2.3	83						Tanveer	

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COSMOS CLINICS AND DIAGNOSTICS  
 #503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru- 560091

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Revision No.	0	Issue Date
		CCD.LAB.FR.006
		TanveerBanu /
		Dr.Nirupama.S

Sl.no.	Date	LOW			NORMAL			HIGH		PERFORME D BY	Remarks/Pathologist Sign	
		Na++	K+	Cl-	Na++	K+	Cl-	Na++	K+			Cl-
RANGE		114-132	1.78-2.78	70-88	134-148	3.57-4.57	91-105	149-167	5.38-6.38	109-127		
Mean		M123	M2.28	M79	M141	M4.07	M98	M158	M5.88	M118		
15	14/7/21	131	2.4	79				161	6.12	120.1	Tanveer	OK
2)	24/7/21	128.	2.4	81.							Tanveer	OK
3)	27/7/21	129.	2.4	82.							Tanveer	OK
4)	29/7/21	130	2.4	83.							Tanveer	OK
5)	29/7/21	131	2.5	85							Tanveer	OK
6)	30/7/21	130	2.4	86							Tanveer	OK
7)	31/7/21	130	2.4	82.							Tanveer	OK
8	1/8/21	129	2.5	83.							Tanveer	OK
9	9/8/21	130	2.4	84.							Tanveer	OK
10	21/8/21	130	2.5	85.							Tanveer	OK
11	4/9/11	129	2.4	83.							Tanveer	OK

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**COSMOS**  
CLINICS &  
DIAGNOSTICS

**COSMOS CLINICS AND DIAGNOSTICS**  
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Revision No.	0	Issue Date	

Sl.no.	Date	LOW			NORMAL			HIGH			PERFORMED BY	Remarks/Pathologist Sign
		Na++	K+	Cl-	Na++	K+	Cl-	Na++	K+	Cl-		
Mean	18/9/21	131.8	2.4	81								
RANGE	14/9/21	126.7	2.2	82								
	15/9/21	128.3	2.30	80								
	16/9/21	131.3	2.39	82.								
	17/9/21	128.3	2.29	81								
	18/9/21	129.7	2.31	82								
	19/9/21	131.5	2.32	83								
	20/9/21	131.4	2.41	81								
	21/9/21	130	2.46	83								
	22/9/21	126	2.23	83								
	23/9/21	129	2.32	83								
	24/9/21	125	2.23	81								

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COSMOS CLINICS AND DIAGNOSTICS  
#503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru-560091

Title	Electrolyte QC Log	
Document Type	Format	Document Number
Prepared By	Mamatha	Checked by / Approved by
Revision No.	0	Issue Date

CCD, LAB, FR, 006  
TanveerBanu /  
Dr. Nirupama.S

low QC  
101: - 06ca 104A-L  
GUP - 202  
opened on 30/11/2022

Sl.no.	Date	LOW			NORMAL			HIGH		PERFORMED BY	Remarks/Pathologist Sign
		Na <sup>++</sup>	K <sup>+</sup>	Cl <sup>-</sup>	Na <sup>++</sup>	K <sup>+</sup>	Cl <sup>-</sup>	Na <sup>++</sup>	K <sup>+</sup>		
RANGE											
Mean	25/11/21	138.8	2.32	83.7						Tanveer	
114-13.2	26/11/21	134.0	2.46	81.5						Tanveer	
123	27/11/21	127.6	2.26	85.2						Tanveer	
117.8-27.8	28/11/21	130.6	2.37	84.4						Tanveer	
70-88	29/11/21	130.6	2.38	83.1						Tanveer	
new year	30/11/21	130.9	2.41	84.5						Tanveer	
	1/12/21	130.5	2.38	84.1						Tanveer	
	2/12/21	133.3	2.44	82.1						Tanveer	
	3/12/21	130.3	2.34	85.1						Tanveer	
	4/12/21	130.3	2.41	86.1						Tanveer	
	5/12/21	129.2	2.37	82.0						Tanveer	
	6/12/21	127.9	2.29	83.7						Tanveer	
	7/12/21	132.5	2.41	85.6						Tanveer	

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 #503, SMV Arcade, Andrahalli Main Road, Syndicate Bank Layout, Bengaluru- 560091

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Prepared By	Mamatha	Issue Date	
Revision No.	0		

Sl.no.	Date	LOW			NORMAL			HIGH		PERFORMED BY	Remarks/Pathologist Sign
		Na++	K+	Cl-	Na++	K+	Cl-	Na++	K+		
Mean	8-10-2021	129.7	2.32	83.4						Tanveer.	
RANGE	114-132										
	9-10-21	128.5	2.27	84.7						Tanveer	
	10-10-21	129.4	2.2	82.1						Kw	
	11-10-21	131.1	2.4	81.2						MD	
	12-10-21	128.5	2.27	84.6						B	
	13-10-21	128.9	2.30	83.9						D	
	14-10-21	131.8	2.35	83.2						Tanveer	
	15-10-21	127.7	2.25	83.8						Tanveer	

low Qc  
 10/10/21  
 Tanveer