

PSR  
www.psrchem.com  
PSR  
ST-200

**ST-200** oQuo  
SENSOCORE  
Ready for Analysis  
Na K 10Ca LI PH Cl

**ST-200** oQuo

PSR  
7290003504  
For other contact details please visit our website: [www.psrchem.com](http://www.psrchem.com)

**ST-200** oQuo  
Expert Pack

OD  
21/4/22

RD  
13/22





TIN NO. : 07250335324  
CIN NO.: U52602DL2009PTC192788

TO,  
PATHOLOGY LAB KVR HOSPITAL,  
SHIV NAGAR, NEAR SPACTRUM COURT ROAD,  
KASHIPUR-244713

### CALIBRATION CERTIFICATE

This is to certify that ST-200 AQUA Electrolyte Analyzer (Sr.No.-STAQW-00224) is exclusively marketed in India by PSR Diag. Pvt. Ltd. is installed at **Pathology Lab KVR Hospital.**

We are solely responsible for maintenance (preventive and breakdown) and calibrations as recommended by the manufacturers in the operator manual and updates received from them time to time.

Instrument hardware calibration is checked & done by our Instrument Engineer on 09.03.2022 & next calibration is due on 08.09.2022.

PSR DIAG. Pvt. Ltd.,



Authorized Signatory

## PSR DIAGNOSTIC PVT. LTD.

#10, Savitri Chamber, 2nd Floor, Prashant Vihar, Delhi-110085 Ph.: 91-11-45710537, 9654075003  
Email: [Sales@psrbiochem.in](mailto:Sales@psrbiochem.in), Web.: [www.psrbiochem.in](http://www.psrbiochem.in)



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#10, Savitri Chamber, 2nd Floor, Prashant Vihar, Delhi-110085 Ph.: 91-11-45710537, 9654075003  
Email: [Sales@psrbiochem.in](mailto:Sales@psrbiochem.in), Web.: [www.psrbiochem.in](http://www.psrbiochem.in)

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SHIV NAGAR, NEAR SPACTRUM COURT ROAD  
KASHIPUR-244713

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Instrument hardware calibration is checked & done by our Instrument Engineer on **11.03.2021** & next calibration is due on **10.09.2021**.

PSR DIAG PVT. Ltd.,



Authorized Signatory

## PSR DIAGNOSTIC PVT. LTD.



**Installation qualification for ST-200 aQua****Customer Name : PATHOLOGY LAB KVR HOSPITAL****Address : SHIV NAGAR, NEAR SPACTRUM COURT ROAD  
KASHIPUR-244713****Instrument Model: ST-200 aQua****Serial Number : STAQW-00224**

Initial Inspection of the Unit carried out and the details are as below:

**System Condition Report:**

Found the System to have been delivered in satisfactory condition and no external physical damaged observed on the same. The Tilt-Indicator and the Shock-Indicators on the Packaging were found to be in Good Condition, indicating the System has not been subjected to mechanical shocks or stored in any manner, so as to cause any damage to the same.

Found all the required accessories as required.

**Installation Procedure & Checklist attached for records.**

**External requirements for Installation:**

- 1 Input Voltage of 220V / 50 Hz ( UPS out-put );
- 2 Recommended Operating temperatures is 22 - 30 Degree Celsius, with relative Humidity 20 - 80% ( No Condensation );

**PSR DIAGNOSTIC PVT. LTD.**

**Installation certificate for ST-200 aQua**

This is to Certify that the **ST-200 aQua** Instrument **Serial No. STAQW-00224** is successfully installed and Commissioned **at PATHOLOGY LAB KVR HOSPITAL** and the Installation Protocol / checklist has been successfully completed for the above Instrument.

PSR Diag. Pvt. Ltd.,

Customer : **PATHOLOGY LAB KVR HOSPITAL**

Name : Mr. Ramendra Sharma

Designation : Service. Engineer

Signature :

Date : 11.03.2021

**PSR DIAGNOSTIC PVT. LTD.**

### Installation qualifications for ST-200 aQua

Carried out all the Installation Procedures as per the Installation Procedure & Checklists.

Carried out all the necessary checks.

Carried out all checks and tests for Movement of Pump & Valve.

Carried out set up procedure as per the customer requirement.

Checked the Probe & Pump Tubing leakage.

Handed over the Instrument for Operators Training & Qualifications.

#### **For PSR Diagnostics Pvt. Ltd.**

Name : Mr. Ramendra Sharma

Designation : **Service Engineer**

Date : 11.03.2021

**PSR DIAGNOSTIC PVT. LTD.**



**Installation Report for ST-200 aQua**Customer Name : **PATHOLOGY LAB KVR HOSPITAL**

Department : Electrolyte Analyzer

Contact Person :

Instrument Model : ST-200 aQua

Serial Number : STAQW-00224

Date of Installation : 11.03.2021

Installation Checks &amp; Protocol done as per Checklist attached.

The Instrument was installed and was found to be working satisfactorily. Preliminary Customer Training was provided and standardization of some parameters were done. The results were found to be within the expected range and the System found to be working satisfactorily.

**PSR Diagnostics Pvt. Ltd.****CUSTOMER:**Name : **Mr. Ramendra Sharma**Name: **PATHOLOGY LAB KVR HOSPITAL**Designation: **Service Engineer**

Designation:

**PSR DIAGNOSTIC PVT. LTD.**



**Instrument Set Up**

- 1 Installed the Na+ Electrode;
- 2 Installed the K+ Electrode;
- 3 Installed the Ica+ Electrode
- 4 Installed the Ph+ Electrode
- 5 Installed the Cl- Electrode
- 3 Installed the Ref. Electrode;
- 4 Installed the Reagent Module;
- 5 Installed the Printer Paper;
- 6 Installed the Pump Tube Kit;

**Operational Inspection**

- 1 Checked the Leakage in Electrodes
- 2 Checked the Flow of Cal A;
- 3 Checked the Flow of Cal B;
- 4 Checked the Flow of Cal C;
- 5 Checked the Pump Tube Kit Tension;
- 6 Checked the Valve Movement
- 7 Checked the Probe Sensor & Bubble Detector;

**PSR Diagnostics Pvt. Ltd.**

Name : Mr Ramendra Sharma

Designation : Service Engineer

Date : 11.03.2021

**PSR DIAGNOSTIC PVT. LTD.**

## Performance Qualifications for ST-200 aQua

### 1. Controls -

- a. Quality Control - Level 1(Low)
- b. Quality Control -Level 2(Normal)
- c. Quality Control -Level 3(High)

Checked and found all level Controls to be within the acceptable SD

Datasheet of Calibration and Controls attached.

**PSR DIAGNOSTIC PVT. LTD.**

# Li/pH/Cl Electrode

## Test Report (Certificate Of Analysis)

**Product Name** : LipHCl Electrode  
**Lot No** : S3AQN2006A14  
**Quality Control's Lot** : AQC2004A  
**Reagent Pack Lot** : R20067  
**Bio Rad-1 Lot** : 26471  
**Bio Rad-2 Lot** : 26422  
**Date** : 04/07/2020

Sr.no	Slope			Quality Control-1			Quality Control-2			Quality Control-3			Bio Rad-1			Bio Rad-2		
	Li	pH	Cl	Li	pH	Cl	Li	pH	Cl	Li	pH	Cl	Li	pH	Cl	Li	pH	Cl
1	81.58	60.64	66.90	0.54	7.02	78.7	1.42	7.23	101.1	2.10	7.39	123.3	0.59	-	95.0	1.30	-	81.2
2	79.8	60.69	66.83	0.54	7.02	80.9	1.41	7.23	101.2	2.12	7.39	123.3	0.58	-	94.4	1.29	-	81.9
3	80.32	60.75	66.90	0.54	7.02	80.9	1.41	7.23	101.2	2.14	7.39	123.5	0.59	-	93.8	1.33	-	82.4
Mean	80.57	60.69	66.88	0.54	7.02	80.2	1.41	7.23	101.2	2.12	7.39	123.4	0.59	-	94.4	1.31	-	81.8
Range	30-100	30-100	35-100	0.10-0.80	6.96-7.06	71-89	0.90-1.60	7.19-7.29	93-107	1.66-2.66	7.35-7.45	110-128	0.50-0.71	-	90.2-106	1.0-1.60	-	76-89.3
Units	mv	mv	mv	mmol/L	-	mmol/L	mmol/L	-	mmol/L	mmol/L	-	mmol/L	mmol/L	-	mmol/L	mmol/L	-	mmol/L

Status : **PASSED**

Product Specification : Quantitative Estimation In Human Blood, Serum & Urine Using Ion Selective Method.



Tested by : *Satish*  
 Date : 04/07/2020

Verified by : *Satish*  
 Date : 04/07/2020



### Operations Qualifications for ST-200 aQua

- |   |   |      |
|---|---|------|
| 1. Verified the Calibrations of Electrodes      | : | Done |
| 2. Carried out set-up of parameters             | : | Done |
| 3. Carried out Daily Cleaning Procedures        | : | Done |
| 4. Carried out manual set-up                    | : | Done |
| 5. Carried out Calibration of Moving Table      | : | Done |
| 6. Imparted Operator's training and maintenance | : | Done |

**PSR DIAGNOSTIC PVT. LTD.**



## Operational Qualification:

### System certification

Study Data has determined that the System described in this document either meets all criteria outlined in this Operational Qualification Protocol, or exceptional conditions have been identified and documentation included.

Exceptional conditions, if any, have been addressed.

**The System is ready for specific usage.**

Protocol Performed By: PSR Diagnostics Pvt. Ltd.

Name : Mr. Ramendra Sharma

Customer Authorization : **PATHOLOGY LAB KVR HOSPITAL**

Company Representative Name & Sign:



Date: 11.03.2021

## **PSR DIAGNOSTIC PVT. LTD.**

SENSACORE  
LEVEL 1  
ANALYZE QC

-----  
Na :123.0 mmol/L  
K :2.32 mmol/L  
iCa:1.43 mmol/L  
Li :0.52 mmol/L  
pH :6.936  
Cl :82.8 mmol/L  
-----

Apr-21-22 13:33:38

-----  
Reagent:27% Samples:446  
-----

SENSACORE  
LEVEL 2  
ANALYZE QC

-----  
Na :143.4 mmol/L  
K :4.12 mmol/L  
iCa:1.20 mmol/L  
Li :1.35 mmol/L  
pH :7.247  
Cl :102.5 mmol/L  
-----

Apr-21-22 13:35:28

-----  
Reagent:27% Samples:447  
-----

SENSACORE  
LEVEL 3  
ANALYZE QC

-----  
Na :165.0 mmol/L  
K :6.11 mmol/L  
iCa:0.81 mmol/L  
Li :2.09 mmol/L  
pH :7.385  
Cl :122.4 mmol/L  
-----

Apr-21-22 13:36:52

-----  
Reagent:27% Samples:448  
-----

May-11-22 13:19:31

Reagent:28% Samples:439

-----  
CALIBRATION SLOPE  
-----

Na :59.30  
K :66.61  
iCa :36.03  
Li :73.70  
pH :52.21  
Cl :77.48

-----  
May-11-22 13:21:29  
-----

Reagent:28% Samples:439  
-----

SENSACORE  
LEVEL 1  
ANALYZE QC

-----  
Na :122.6 mmol/L  
K :2.26 mmol/L  
iCa:1.48 mmol/L  
Li :0.56 mmol/L  
pH :6.930  
Cl :82.6 mmol/L

-----  
May-11-22 13:22:53  
-----

Reagent:28% Samples:440  
-----

SENSACORE  
LEVEL 2  
ANALYZE QC

-----  
Na :143.2 mmol/L  
K :4.12 mmol/L  
iCa:1.20 mmol/L  
Li :1.39 mmol/L  
pH :7.242  
Cl :102.0 mmol/L

-----  
May-11-22 13:24:34  
-----

Reagent:28% Samples:441  
-----

SENSACORE  
LEVEL 3  
ANALYZE QC

-----  
Na :165.6 mmol/L  
K :6.06 mmol/L  
iCa:0.80 mmol/L  
Li :2.11 mmol/L  
pH :7.381  
Cl :122.1 mmol/L

-----  
May-11-22 13:25:56  
-----

Reagent:28% Samples:442