

CALIBRATION REPORT

Customer Name

Lotus Diagnostics

Address

Shop No. 5, Chandresh CHS,

Next to Lotus Multi Speciality Hospital, Opp. ST Lawrence School, Devki Nagar,

Borivali -West, Mumbai -400103

Instrument Model

ST-200 Plus Electrolyte Analyzer

Serial no

ST -3789

Calibration Date

12.06.2017

As per the Standard Operating procedure of ST-200 Plus Electrolyte Analyzer, the instrument has been calibrated.

As per method mentioned into manuals/sop, the Known Value Sample/Control run on the analyzer. All obtained values were within a normal range as mentioned in performance certificate. This indicated that an instrument is performing accurately and precisely.

Hence, we certified that ST-200 Plus Electrolyte Analyzer is calibrated.



Performed By.

Na =157.2 mmol/L K =5.80 mmol/L Cl =120.5 mmol/L Jun-12-17 12:36:46

Jun-12-17 12:34:48

LEVEL 3 ANALYZE QC ANN Y'Y TYPY DIGHT CHINE Jun-12-17 17:28:24

ANAL L.

No 110 / mol/L HIGH K -1 99 mm1/L HIGH 01 84. / mai/1 HIGH

Jun-12-17 12-32:40

LEVEL 2

ANALYZE UC

Na = 138. 7 mol/L HIGH K =3. 79 cmc1/1 HIGH Ci =103. 7 mol/L HIGH

Jun-12-17 12:34:48

ANALYZE QC

Na = 157. 2 mmol/L HIGH K = 5 80 amol/L HIGH CL = 120 5 mol/L HIGH

Jun-12-17 12:36:46



INSTALLATION QUALIFICATION - IQ

OPERATIONAL QUALIFICATION - OQ

&

PERFORMANCE QUALIFICATION - PQ



ST-200 Plus Electrolyte Analyzer

INSTALLATION QUALIFICATON

FOR Lotus Diagnostics.

Shop No. 5, Chandresh CHS, Next to Lotus Multi Speciality Hospital, Opp. ST Lawrence School, Devki Nagar, Borivali -West, Mumbai -400103.

BY NIRMAAN BIOMEDICALS



CERTIFICATION OF INSTALLATION

ST-200 Plus Electrolyte Analyzer INSTRUMENT NAME:

ST -3789 SERIAL NUMBER

: Lotus Diagnostics CUSTOMER NAME

: Shop No. 5, Chandresh CHS, ADDRESS

Next to Lotus Multi Speciality Hospital, Opp. ST Lawrence School, Devki Nagar,

Borivali -West, Mumbai -400103.

THE UNDESIGNED PERFORMERS CERTIFY THAT THE INSTALLATION QUALIFICATION PROTOCOL HAS BEEN SUCCESSFULLY COMPLETED FOR THE INSTRUMENT STATED ABOVE.

SERVICE DIVISION:

Signature

Mr. Makarand Thakur Name

(Service Engineer) Designation

Nirmaan Biomedicals Distributor

QUALITY DIVISION:

Signature

Mr. Makarand Thakur Name

(QC Engineer) Designation

Nirmaan Biomedicals Distributor



INSTALLATION REPORT

CUSTOMER NAME

Lotus Diagnostics

PLACE

Mumbai

DEPARTMENT

DIAGNOSTICS CENTER.

INSTRUMENT NAME

ST-200 Plus Electrolyte Analyzer

SERIAL NUMBER

ST - 3789

INSTALLATION DATE

12.06.2017

THE ELECTROLYTE ANALYZER WAS INSTALLED ALONG WITH THE NECESSARY STANDARD ACCESSORIES, ALL BASIC REQUIREMENTS AND ADJUSTMENTS WERE CHECKED AND FOUND TO BE SATISFACTORY. THE PRELIMINARY STANDARDIZATION OF THE ELECTROLYTE ANALYZER AND THE TRAINING WERE PROVIDED TO THE COMPLETE SATISFACTION OF THE CUSTOMER. THE ELECTROLYTE ANALYZER IS FOUND TO BE WORKING SATISFACTORILY.

FOR NIRMAAN BIOMEDICALS



INSTRUMENT SETUP

S No	ITEM DESCRIPTION	STATUS
1	SOFTWARE VERSION Up to date	INSTALLED
2	REAGENT PACK	INSTALLED
3	QUALITY CONTROL	TESTED

OPERATION INSPECTION

- POWER SUPPLY CHECKED.
- NO UNUSUAL NOISE PRODUCED IN THE SYSTEM.

FOR NIRMAAN BIOMEDICALS



INSTALLATION QUALIFICATION

INSTRUMENT NAME

ST-200 Plus Electrolyte Analyzer

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CUSTOMER NAME

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INSTALLATION REQUIREMENTS FOR THE INSTRUMENT:

		T COCEDUED DANCE
REQUIREMENTS	ACCEPTABLE RANGE	OBSERVED RANGE
REQUIREMENTS		217+5V AC
Input Voltage	220 <u>+</u> 10AC	
	50/60 HZ	50HZ
Line Frequency		37 degree
A - Linet Tomperature	15-45 degree	37 degree
Ambient Temperature	15-45 degree	37 degite

FOR NIRMAAN BIOMEDICALS



ST-200 Plus Electrolyte Analyzer

OPERATIONAL QUALIFICATON

FOR Lotus Diagnostics.

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THE UNDESIGNED PERFORMERS CERTIFY THAT THE OPERATIONAL QUALIFICATION PROTOCOL HAS BEEN SUCCESSFULLY COMPLETED FOR THE INSTRUMENT STATED ABOVE.

SERVICE DIVISION:

Signature :

Name :

Designation :

Distributor

Statuling

Mr. Makarand Thakur

(Service Engineer)

NIRMAAN BIOMEDICALS

QUALITY DIVISION:

Signature :

Name :

Designation :

Distributor

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Mr. Makarand Thakur

(QC Engineer)

NIRMAAN BIOMEDICALS



OPERATIONAL QUALIFICATION OF THE INSTRUMENT:

DESCRIPTION	STATUS	REMARKS
POWER SUPPLY	SELF CHECK	PASSED
ELECTRONICS	SELF CHECK	PASSED
REAGENT PACK	SELF CHECK	PASSED
HARDWARE	SELF CHECK	PASSED
FLOW PATH	SELF CHECK	PASSED

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PERFORMANCE ANALYSIS

The performance of the system has been verified by the following process.

The control Level 1 & Level 2 & Level 3 have been run and the results are within control range with following precision limits.

THE UNDERSIGNED PERFORMERS CERTIFY THAT THE PERFORMANCE QUALIFICATION PROTOCOL HAS BEEN SUCCESSFULLY COMPLETED FOR THE INSTRUMENT STATED ABOVE.

A separate annexure has been attached along with this document

SERVICE DIVISION:

Signature

Name

: Mr. Makarand Thakur

Designation

(Service Engineer)

Distributor

NIRMAAN BIOMEDICALS

QUALITY DIVISION:

Signature

Name : Mr. Makarand Thakur

Designation : (QC Engineer)

Distributor : NIRMAAN BIOMEDICALS