



Date: 04-03-2022

CALIBRATION CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

We hereby certify that the Electrolyte Analyzer Model **NuLYTE SMART**, which belong to **Arpan Diagnostics Centre, Rajkot** and is installed in Laboratory is Standardized and tested on **04th March, 2020**.

Measured mV Values are:-

S.N.	Electrode	Calibration Slope (mV)	Calibration Ranges (mV)
01	Na ⁺	67.43 mV/dec	35-100 mV/dec
02	K ⁺	68.17 mV/dec	35-100 mV/dec
03	iCa ⁺⁺	43.10 mV/dec	15- 35 mV/dec

QC Measurement (QC LEVEL LOT NO:-UQC19F Exp: May. 2023)

S.N	Parameter	Expected Values (mmol/L)
		LEVEL 2
01	Na ⁺	133 – 147
02	K ⁺	3.46 – 4.46
03	iCa ⁺⁺	1.10-1.35

Measured Values are:-

S.N	Parameter	Measured Values (mmol/L)
		LEVEL 2
01	Na ⁺	138
02	K ⁺	3.96
03	iCa ⁺⁺	1.22

Successful completion of the preceding activities and checks indicates that this instrument has been satisfactorily installed. The instrument has passed the Installation Qualification procedure. This Calibration Certificate is valid for one year.

For PathoHub Biomedical LLP,

(Authorized Signatory)



Date: 04/03/2022

Installation / Qualification Report

Customer Name	Arpan disgnostic Centre, Rajkot	
Address	150ft. Ring Road, Indra Circle, Rajkot – 360005	
Equipment	Electrolyte Analyzer	
Model	NuLYTE SMART	
Serial No.	1507	
Supplier Name	Pathohub Biomedical LLP G-43, Sumel Business Park -6, Jupiter Mill Compound, Dudheshwar Cross Road, Shahibaug, Ahmedabad. 382004	
Installation Date	29/08/2017	
Power Supply	220 V	O.K
Daily Maintenance	O.K	
Calibration Report	O.K	





PathoHub

Biomedical LLP

Basic Conditions:

Power Input	Ground-Neutral	02 to 05 V
	Neutral –Phase	180 to 240 V
	Phase-Ground	180 to 240 V
UPS	3KVA pure sine wave output with 180 to 240 V	

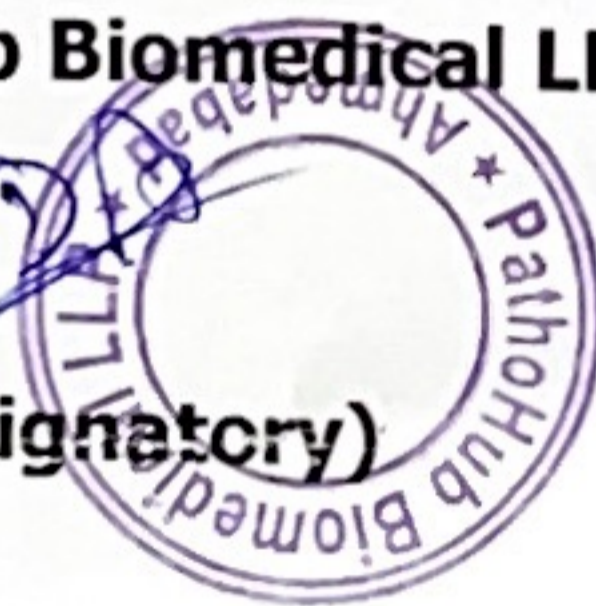
Location Specifications:

1. Keep Away from or shielded from any centrifuges, X-Ray sources, Ultrasound, Nuclear and Magnetic Equipment.
2. Also keep away from direct sunlight, A.C. vent, heat vent and other heat producing equipments
3. Stable Level, Non-porous and Non-absorbing work surface.
4. 15^o-32^o C, Room Temperature (60^o-90^oF) < 85% Humidity

The location for Installation and the Equipment were checked as per specifications and the equipment was installed.

For, PathoHub Biomedical LLP.

(Authorized Signatory)





PERFORMANCE QUALIFICATION

The performance of the equipment was checked for the following:

Na⁺/K⁺/iCa⁺⁺ Electrode voltage verification.

Calibration Time verification.

The results are well within the acceptable range.

Operational Status - Working

Equipment has been validated to perform desired parameters.

Performance for parameters (Na⁺/K⁺/Cl⁻) verified with commercial control.

Run Level-2, Level-3 control and results are within acceptable range.

Calibration Date 04/03/2022

Calibration Validity One Year

Next Calibration due 03/03/2023

For, Pathohub Biomedical LLP.


Authorized Signatory