

Date- 27/05/2024

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## **CALIBRATION REPORT**

To,

Gautam labdhi Diagnostic Center,

pune.

As desired by you please find enclosed here with the report.

Name of System Sr. No.	Microlyte Electrolytes Analyzer
Calibration done on Next calibration Due on Calibrated By	EL19NV874
	27/05/2024
	26/05/2025
	Mr. Eknath Jadhay

# Instrument calibration Values :-

Electrode	Na+		
Results		K+	CI-
	132.8	4.2	07.1
Mean	139	ARGE III	97.1
Range		3.96	97
	132-146	3.76-4.16	92.2-102
Cal. values	60.5		32.2-102
Within range	30.5	58.2	48.1

All value is within range.

Checked instrument all found ok.

With Regards

Crystal Diagnovision



#### TRACEABILITY CERTIFICATE

**Product Name:** Standard CAL-A Reagent Pack

**Product Code:** ML-C-1001

Intended Use: To provide calibration points for Sodium, potassium, Ionized Calcium,

Lithium, Chloride electrode with Electrolyte Analyzers.

**Presentation:** 1 Sealed Plastic pack containing 2 bags of Standard A (450ml x 2)

**Storage:** 18 – 25 ° C

Lot No: Mentioned on Pack

**Handling:** Exercise normal laboratory precautions.

**Stability:** Package stability (Expiration date) is listed on product pack label.

**Notes:** This product is intended to serve as a functional equivalent to pre-existing material distributed by the original equipment manufacturer. Micro Lab Instruments calibrators have defined electrolyte concentrations that provide internal calibration points against which samples are measured by direct Ion Selective Electrodes Methods.

**Value Assignment:** Each analyte is directly traceable to NIST Reference materials. Potassium (NIST 919c), Sodium (NIST 919b), Lithium (NIST 3129a), Calcium (NIST 915b) with Flame Photometry method and Chloride (NIST 919b) with Coulometric Titration method respectively.

This is to certify that the calibration standard solution used with Electrolyte Analyzer, Manufactured by Micro Lab Instruments is traceable to the National Institute of Standards and Technology (NIST) reference materials and methods which are listed above in value assignment.



#### TRACEABILITY CERTIFICATE

**Product Name:** Standard CAL-B Reagent Pack

**Product Code:** ML-C-1002

Intended Use: To provide calibration points for Sodium, potassium, Ionized Calcium,

Lithium, Chloride electrode with Electrolyte Analyzers.

**Presentation:** 1 Sealed Plastic pack containing 1 bag of Standard A (280ml x 1).

**Storage:** 18 – 25 ° C

**Lot No:** Mentioned on Pack

**Handling:** Exercise normal laboratory precautions

**Stability:** Package stability (Expiration date) is listed on product pack label.

Notes: This product is intended to serve as a functional equivalent to pre-existing material distributed by the original equipment manufacturer. Micro Lab Instruments calibrators have defined electrolyte concentrations that provide internal calibration points against which samples are measured by direct Ion Selective Electrodes Methods.

**Value Assignment:** Each analyte is directly traceable to NIST Reference materials. Potassium (NIST 919c), Sodium (NIST 919b), Lithium (NIST 3129a), Calcium (NIST 915b) with Flame Photometry method and Chloride (NIST 919b) with Coulometric Titration method respectively.

This is to certify that the calibration standard solution used with Electrolyte Analyzer, Manufactured by Micro Lab Instruments is traceable to the National Institute of Standards and Technology (NIST) reference materials and methods which are listed above in value assignment.

### Date- 27/05/2024

## IQ (Installation Qualification)

Sr No	Utilities to be checked	Observation	Inference	Verified by & Date
1	Environmental condition as per requirement:	Temp : <u>24 °C</u>	YES	27/05/2024
		Humidity : <u>52%</u>		
	Ambient Temp Range : <u>05 - 32 °C</u>			
	Humidity Range: Less Than 80 %			
2	Adequate space for installation :	OK	YES	27/05/2024
	Minimum in FT. <u>3.0(W) X 2.5(D)</u>	FT.4.0(W)X2.6(D)		
3	Electrical Outlets : Actual voltage on site : 140-250 V	230 V AC Regular	YES	27/05/2024

The instrument has been verified for the following:

Sr No.	Verification		Verified by & Date
1	Equipment is identified	YES	27/05/2024
2	Manufacturer's specifications are included	YES	27/05/2024
3	Accessories / consumables are listed	YES	27/05/2024

### Equipment Description:

Instrun	nent Identification	Verified By	Date
Equipment Name	ISE based Electrolyte Analyser	Mr. Eknath Jadhav	27/05/2024
Model	Microlyte (Na/K/CL)	Mr. Eknath Jadhav	27/05/2024
Manufacturer	MICROLAB INSTRUMENTS	Mr. Eknath Jadhav	27/05/2024
Marketed By	CRYSTAL DIAGNOVISION	Mr. Eknath Jadhav	27/05/2024
Serial Number	EL21NV874	Mr. Eknath Jadhav	27/05/2024
SUPPLY	AC-220 V 50Hz POWER- 80VA	Mr. Eknath Jadhav	27/05/2024

Validation By:

Name: Mr. Eknath Jadhav

Designation: Service Engineer

Signature:

Date- 27/05/2024

# OQ (Operational Qualification)

Equipment is working on <u>ISE based maintenance free electrodes</u>

Following is a list of tests to be performed and verified:

Test No	Test name	Test purpose	Verified by and Date
1	Self-checks	Initializing the instrument	27/05/2024
2	Mechanism operation Test	To test the mechanism of the instrument	27/05/2024
3	Printer	To test the working condition of the printer	27/05/2024
4	Calibration	For verification of the factory set calibration	27/05/2024
5	Quality control	For verification of calibration and validation of sample analysis	27/05/2024

Validation By:

Name: Mr. Eknath Jadhav

Designation: Service Engineer

Signature: