

EC 90

NEW

Next Generation Electrolyte Analyzer

*The Magic
is in the
BIOsensor*

Detects Na⁺, K⁺, Cl⁻, iCa⁺⁺



Seamless
Operation



Patient
Friendly



User
Friendly



Affordable

Making Automation Affordable
for labs Everywhere



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Raj Biosis Private Limited

www.rajbiosis.com

EC 90

Next Generation Electrolyte Analyzer

The state-of-the-art Microfluidic **BIO**sensor technology-based analyzer with high quality components, increases productivity, improves turnaround time, offers accurate results, and reduces operational costs to make electrolyte analysis more affordable.

The microfluidic chip, integrated with printed sensors, enables hassle-free operation. The small footprint along with the all-in-one cartridge makes analysis easier and perfects for small to high workload users

KEY BENEFITS



SEAMLESS OPERATION

- Helps lab in creation the brand
- Advanced technology
- Excellent data management



PATIENT FRIENDLY

- Short turn around time
- Small aspiration volume helps to analyse Paediatric & Geriatric samples



USER FRIENDLY

- Plug & play
- Simple user interface
- No replacement of electrode
- Easy access through barcode
- Lab mean enabled
- All-in-one cartridge



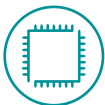
AFFORDABLE

- Higher revenues
- No extra maintenance cost
- Fixed output
- Predictable cost per test

KEY FEATURES



Measurement through DIRECT ISE



Thick Film Bio-Sensor Technology



Parameter Na, K, iCa, Cl



Aspiration Volume 35µl*



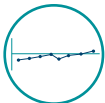
Analysis Time 35 sec



All-in-One Cartridge



Large display with Touch Screen



QC with L-J & Westgard Rules



10000 sample storage capacity

Advantage of DIRECT ISE over INDIRECT ISE

Direct ISE	Indirect ISE
Quicker Turn Around Time	The patient's sample (Serum/Plasma, Whole Blood, and Other Body Fluid) gets diluted first with a buffer in the range of 1:16 to 1:34 before the sample meets electrode membrane
Freedom from Protein & Lipid Interference	In case of HYPERPROTEINEMIA and HYPERLIPIDEMIA, the volume of plasma solid increases, which lead to falsely low value, especially for Sodium. The phenomenon is known as PSEUDOHYPONETREMIA and has an impact on result in INDIRECT ISE
Accurate results for all patient types	Indirect ISE use a calculation based on assumption of 93% plasma water concentration. Various degree of dehydration reduces the plasma water concentration which lead to inaccurate results

The patient's sample (Serum/Plasma, Whole Blood, and Other Body Fluid) is brought into direct contact with electrode membrane of BioSensor and the activity of the respective ion is measured

Therefore, DIRECT ISE has quicker TAT compared to any other principle available for electrolyte Analysis

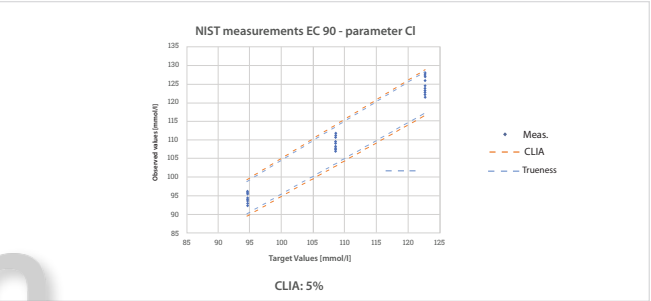
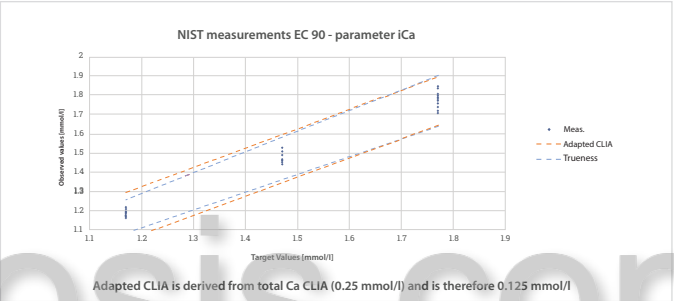
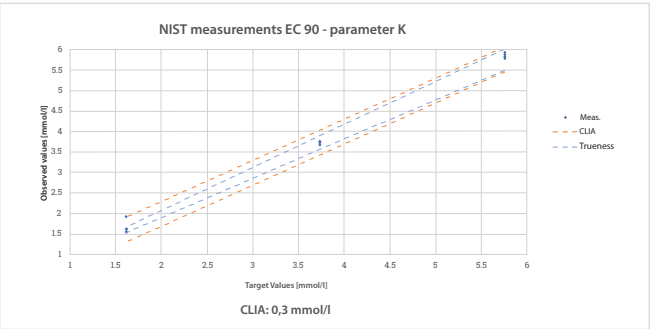
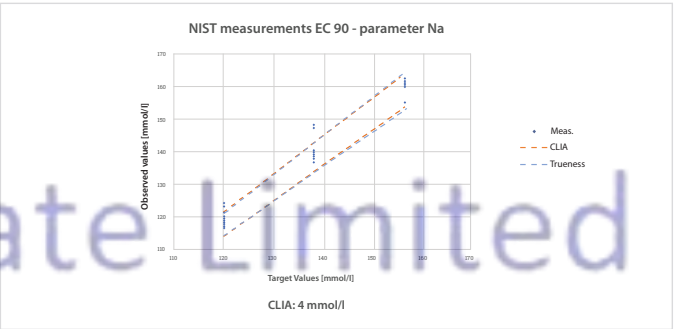
Illness such as Diabetes, Liver and Kidney disorders and alcoholism can raise protein and lipid concentration in the blood, causing HYPERPROTEINEMIA and HYPERLIPIDEMIA.

Hence DIRECT ISE ensures accurate result even in conditions like HYPERPROTEINEMIA and HYPERLIPIDEMIA

Conditions like dehydration can reduce the plasma water concentration of the sample. Direct ISE with biosensor is reporting the true results, without any plasma water concentration assumption

DIRECT ISE will provide accurate result as it is not using any calculation of plasma water concentration

EC90 NIST* Performance

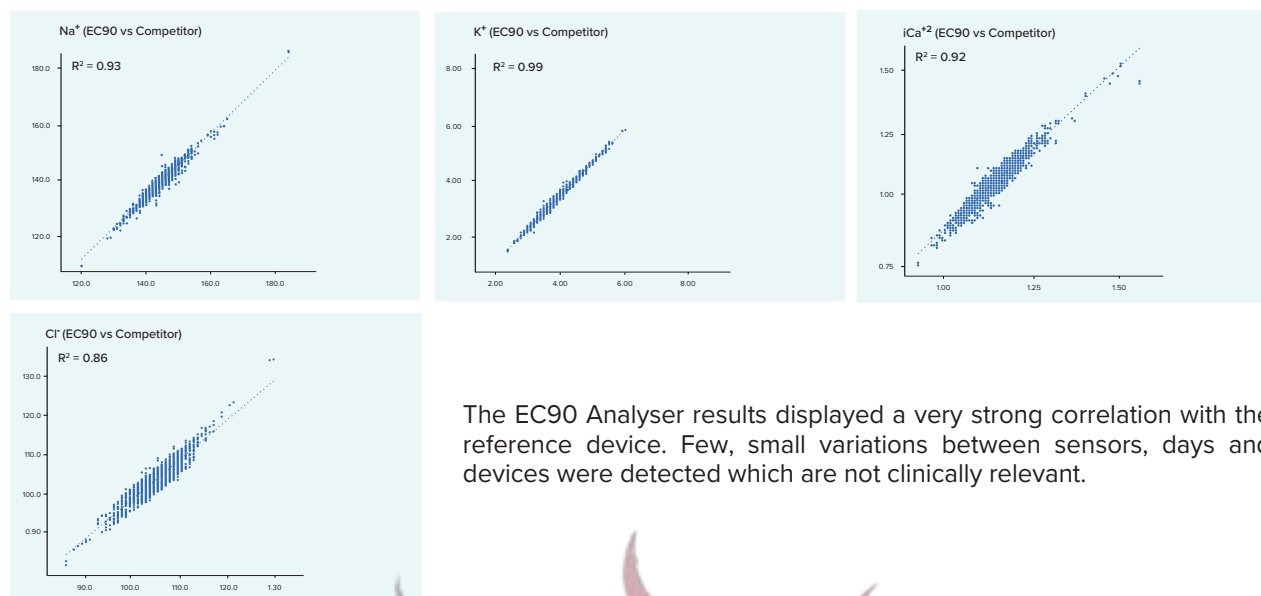


NIST Standard Reference Materials (SRMs) are key tools for verifying important measurement results, developing new measurement methods, and providing users with the means to establish traceability of their results to a stated reference.

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Method evaluation in a clinical setting

EC90 results were evaluated using ~1300 patients measured on the reference device in a university hospital.



The EC90 Analyser results displayed a very strong correlation with the reference device. Few, small variations between sensors, days and devices were detected which are not clinically relevant.



Ordering Information

Product Code	HSN Code	Product Description
166409	90278990	EC-90 - Electrolyte Analyzer
122095	38221990	EC Cartridge XS (250T)
122041	38221990	EC Cartridge S (500T)
122040	38221990	EC Cartridge M (1000T)
122121	38221990	EC Cartridge XS (250T) plus iCa
122122	38221990	EC Cartridge S (500T) plus iCa
122123	38221990	EC Cartridge M (1000T) plus iCa
122125	38221990	EC90 Urine Diluent

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