NP-P20

Electrolyte Analyzer

5-in-1 cartridge testing with ionized magnesium



5

Measured parameters
K+, Na+, Cl-, iCa2+, iMg2+

100 µL

Minimum sample volume

< 5 min

Calibration + testing

Room-temperature cartridges up to 8 months | Maintenance-free fluidics | LIS/HIS connectivity

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Applications & How to Use

Emergency

Monitoring electrolytes in critically ill patients due to poisoning, coma and convulsions.

ICU

Monitoring electrolytes in critically ill patients.

Anesthesiology

Monitoring electrolytes during surgical anesthesia (preoperative, intraoperative and postoperative).

General Physicians' office

Primary Medical Electrolytes test.

Surgery

Monitoring electrolytes during operation.

Dermatology

Monitoring electrolytes in patients with severe trauma, burn and scald.

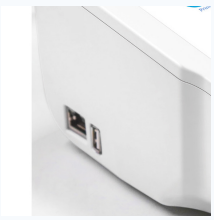
Gastroenterology

Monitoring electrolytes in patients with diarrhea and vomiting accompanied by coma.

Nephrology

Monitoring electrolytes for patients in dialysis ward.

How to use



1 Scan the barcode on the cartridge pouch and take out the cartridge.



2 Fill the inlet with sample to the fill mark and slide the cap to seal the inlet.



3 Insert the cartridge into the analyzer until it clicks. Wait for the results.

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Advanced Features & Clinical Significance

Advanced Features

Concurrent testing K+, Na+, Cl-, iCa2+, and iMg2+.
Ionized Magnesium (iMg2+) testing.
Dry electrochemical technology with a patented pellet structure design.
Exclusive molecular probes and algorithms.

Portability and Data Storage

Compact and portable design for on-the-go use.
Over 50 consecutive tests on a single charge with the built-in lithium battery.
Built-in barcode scanner and thermal printer.
Stores over 99,999 records.
Connection to LIS/HIS.

User-friendly Experience

Whole blood testing for instant results.
Minimum sample volume requirement (100 µL).
No fluidic pathways for hassle-free operation and minimal maintenance.
Room temperature stored test cartridges (up to 8 months).

Efficiency and Accuracy

Swift calibration and testing in under 5 minutes.
Built-in calibration solution.

Test Parameters and Clinical Significance

Potassium (K+)

Minor fluctuations in extracellular K+ concentration can lead to significant alterations in the transmembrane potential gradient, consequently impacting the function of neuromuscular and cardiac tissues.

Sodium (Na+)

Na+ is the principal determinant of water distribution between the intracellular and extracellular compartments; it is essential for the maintenance of blood volume and thereby blood pressure.

Chloride (Cl-)

Cl- is essential for the maintenance of normal plasma osmolarity.

Ionized Calcium (iCa2+)

Critical for structural integrity of bones, hemostasis, cardiac and skeletal muscle contraction, neuromuscular transmission and proper function of many hormones.

Ionized Magnesium (iMg2+)

Associated with stabilization of intracellular potassium, supporting normal functionality of the myocardium, nerves and muscles.

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Performance & Accuracy Validation

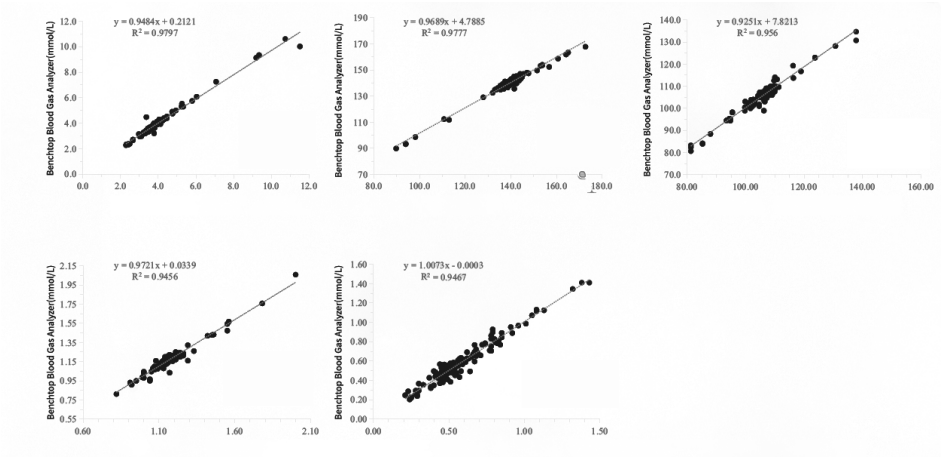
Performance

Parameter	Accuracy	Precision	Stability	Test Range (mmol/L)
K+	±3.0%	≤1.5%	≤2.0%	1.0-5.0
Na	±3.0%	≤1.5%	≤2.0%	100-200
Cl-	±3.0%	≤1.5%	≤2.0%	65-160
iCa2+	±5.0% ±0.05 mmol/L	≤1.5%	≤3.0%	0.25-4.00
iMg2+	±5.0% ±0.05 mmol/L	≤3.0%	≤3.0%	0.2-1.5

Benchmarking its performance against a gold standard wet bench analyzer

Accuracy Validation

The accuracy of Eaglenos Electrolyte Analyzer has been validated by linear regression analysis showing a strong positive, linear relationship between two analyzers (R2 > 0.94 for all parameters), demonstrating the accuracy of our analyzer for K+, Na+, Cl-, iCa2+ and iMg2+ measurements.





Correlation with Benchtop Analyzer

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Product Notes & Contact

Product highlights from source

- 5-in-1 cartridge
- Including iMg2+
- Maintenance free



Regulatory wording from source

For in vitro diagnosis only.

For the intended use of the product, precautions and contraindications, please refer to the instructions.

This material is intended for academic exchange and training of professionals only.

Contact information from source

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