

9180 Electrolyte Analyzer

Electrolyte Analysis You Can Count On



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Power Of Combination

Informative display

Patient, QC results and user menus are all shown clearly on the backlit display, while the built-in printer provides hard copy of patient sample, QC and calibration results if required.



QC - Quality Control



Yes/No – Easy operation

The complete operation is controlled with the Yes/No buttons.

Interchangeable electrodes

The combination of measured parameters can be changed to one of several different configurations simply by installing the necessary electrodes.



Product photo for illustrative purpose only and may differ from actual product

Universal SnapPak

The feature that best demonstrates the 9180 Electrolyte Analyzer user-friendliness is the convenient SnapPak container. It combines all the solutions required for any electrolyte parameter configuration together with a sealed waste container for convenience and safety.

SIMPLE OPERATION & LOW MAINTENANCE

- Electrolyte results can be obtained from just 95 µl of whole blood, serum, plasma, acetate, bicarbonate dialysate or pre-diluted urine using a simple Yes/No dialogue.
- Long-life, zero-maintenance electrodes, single-pump design and simple fluidic path reduces routine service to a minimum.

FLEXIBLE CONFIGURATION

- The 9180 Electrolyte Analyzer gives a choice of several different, interchangeable electrolyte configurations to fit immediate and future testing needs. To change the configuration, just substitute the electrode and recalibrate. There is no need to change reagents or replace any tubing.

Flexible Configurations of The 9180 Electrolyte Analyzer

Na ⁺ , K ⁺	Na ⁺ , K ⁺ , Cl ⁻	Na ⁺ , K ⁺ , Ca ²⁺
Na ⁺ , K ⁺ , Li ⁺	Na ⁺ , Li ⁺	Na ⁺ , Ca ²⁺ , Li ⁺
Li ⁺	Na ⁺ , Cl ⁻	Na ⁺ , Ca ²⁺

SPECIFICATIONS

Electrodes

Sodium Sensor	Na ⁺	ion selective, flow-through, glass capillary electrode
Potassium Sensor	K ⁺	ion selective, flow-through, liquid membrane electrode
Chloride Sensor	Cl ⁻	ion selective, flow-through, liquid membrane electrode
Ionized Calcium Sensor	Ca ²⁺	ion selective, flow-through, liquid membrane electrode
Lithium Sensor	Li ⁺	ion selective, flow-through, liquid membrane electrode
Reference System		open liquid junction, flow-through electrode

Measuring Range (in mmol/L)

Sample Type	Ion	Resolution	Range
Whole Blood, Serum, Plasma, QC-Material	Na ⁺	0.1 mmol/L	range 40–205 mmol/L
	K ⁺	0.01 mmol/L	range 1.5–15 mmol/L
	Cl ⁻	0.1 mmol/L	range 50–200 mmol/L
	Ca ²⁺	0.001 mmol/L	range 0.2–5.0 mmol/L
	Li ⁺	0.001 mmol/L	range 0.1–6.0 mmol/L
Dialysate	acetate or bicarbonate for Na ⁺ , K ⁺ , Cl ⁻ , Ca ²⁺		
	Na ⁺	0.1 mmol/L	range 40–205 mmol/L
	K ⁺	0.01 mmol/L	range 0.8–15.0 mmol/L
	Cl ⁻	0.1 mmol/L	range 50–200 mmol/L
Urine	Ca ²⁺	0.001 mmol/L	range 0.2–5.0 mmol/L
	Na ⁺	1.0 mmol/L	range 1–300 mmol/L
	K ⁺	0.1 mmol/L	range 4.5–120 mmol/L
	Cl ⁻	1.0 mmol/L	range 1–300 mmol/L
Reproducibility _(within-run)	Na ⁺	CV 1.0% (at 140–160 mmol/L)	
	K ⁺	CV 1.0% (at 4.0–6.0 mmol/L)	
	Cl ⁻	CV 1.0% (at 90–130 mmol/L)	
	Ca ²⁺	SD 0.02 mmol/L (at 0.8–1.5 mmol/L)	
	Li ⁺	SD < 0.02 mmol/L (at 0.4–1.3 mmol/L)	

Reference: Instructions for Use version 10.0 2022

For Healthcare Professionals Only

Roche (Philippines) Inc
Unit 801, 8/F, The Finance Centre
26th St., corner 9th Avenue
Bonifacio Global City, Fort Bonifacio
Taguig City, Philippines

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FULL AUTOMATION

- A two-point calibration is carried out every four hours and a one-point calibration with each test, ensuring precision and conformity to even the most stringent regulatory requirements.
- Programmable to automatically enter stand-by mode during idle period.

QUALITY ASSURANCE

- The 9180 Electrolyte Analyzer incorporates a Quality Control program, which stores up to 35 values of each of three control levels and automatically flags out-of-range results.
- ISETROL, a precisely formulated control that needs no refrigeration, is the product of choice to monitor the performance of the 9180 Electrolyte Analyzer.

PRECISION SENSORS

- Long-life, maintenance-free electrodes ensure high precision and reliability.



Operating Parameters

Sample Size	95 µl typical
Sample Type	whole blood, serum, plasma, urine, dialysate, aqueous stds, QC
Sample Application	syringe, sample cup, collection tube, capillary
Analysis Time	50 seconds
Sample Rate	60 samples/hour without printout; 50 samples/hour with printout
Calibration	fully automatic, 1-point with every sample; 2-point every 4 hours
Data Management	quality control storage: 3 levels, 34 days; calculation of mean, SD and CV
Correlation Factors	user programmable for sample types: blood, urine, dialysate types
Normal Values	flagging of abnormal results; user programmable ranges
Standby Mode	user or automatically controlled
Diagnostic Programs	user-controlled diagnostics with easy to understand messages
Electronics	microprocessor controlled; memory for last 20 error messages
Display	dot matrix, 2 lines, 16 characters wide
Printout	built-in, thermal roll printer; 16 characters wide
Languages	on-board; English, German, French, Spanish, Japanese, Italian, Polish
Computer Interface	RS-232C (standard serial port)
Data Link	Interface to COMPACT 2 and 3 Blood Gas Analyzer
Temperature	room temperature, 15°C – 32°C (60°F – 90°F)
Relative Humidity	5% – 95%, non-condensing
Power Requirements	110 – 240 V, 50/60 Hz (self-adjusting) 1.4 Amp Max
Dimensions	H x W x D: 33.5 x 31.5 x 29.5 cm (13.2 x 12.4 x 12.0 in)
Weight	6 Kgs (13 lbs) approx.
Approvals	CSA
Declaration of Conformity	CE (EN45014)

Please review product information

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