

Electrolyte Analyzer with Ion-Selective Electrodes

SPOTCHEM™ EL

SE-1520



Fast, accurate and simple
electrolyte analysis of body fluids
– essential in an emergency!

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Easy calibration

Insertion of the magnetic card attached to the E-Plate into the analyzer completes calibration.

Simultaneous test of three electrolytes

The levels of three electrolytes - Na, K, Cl - are measured at the same time on the same E-Plate.

Minute samples

Whole blood, serum, plasma and urine can be measured with very small samples (only 22 μ L). This greatly lightens the burden on patients, especially children and sensitive patients.

Compact and lightweight

Together with improved basic functions, the analyzer has also become more compact and lightweight, requiring only a A5-size (148×218mm)space. A large table area is no longer needed.

Convenient Twin-pipette

Special twin-pipette is available.



Twin-pipette ...the simplest type, with functions needed for drawing and application of samples.

Test results produced promptly and automatically

Removing the Twin-pipette after applying the sample automatically starts measurement. A printout of the three measurements is produced in just one minute.

Highly reliable special electrodes

The E-Plate has three pairs of internal electrodes. Electrolyte concentrations in the sample are calculated from the potential difference generated between the sample and an equal amount of reference solution dropped onto the plate.



Operation is this simple!



Set the exclusive E-Plate.



Draw the sample and reference solution with the Twin-pipette.

Set the pipette and apply.



Remove the pipette.

Measurement starts automatically and the test result comes out in one minute.

Specification

Samples	Whole blood, plasma, serum and urine	Warm-up time	About 1 minute (at room temperature of 25°C)
Electrolytes	Na, K, Cl	Display	20 digits × 2 lines LCD
Measurement principle	Potentiometry, by ion-selective electrodes	Printer	58mm width built-in thermal printer
Measurement range	For whole blood / plasma / serum Na:50~250mmol/L, K:1~15mmol/L, Cl:50~200mmol/L For urine (diluted to 50% with distilled water) Na:10~350mmol/L, K:1~80mmol/L, Cl:3~300mmol/L	External output	RS-232C (serial)
Measurement time	About 1 minute	Measurement conditions	Temperature: 10~30°C, Relative humidity: 20~80% (non-condensation)
Sample volume	About 22 μ L	Power supply	AC100~240V 50/60Hz
Data storage volume	50 measurements	Power consumption	40VA
		Dimensions	225 (D) × 135 (W) × 138 (H) mm
		Weight	Analyzer: 1.5kg AC adapter: 0.2kg

※Design and specifications may be changed without prior notice

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