

Electrolyte measuring system

SPOTCHEM™ EL

SE-1520



Simple electrolyte analysis of body fluids

Specifications

Sample	Whole blood, Serum, Plasma
Measurement item	Na ⁺ , K ⁺ , Cl ⁻
Measurement principle	Potentiometric method with ion selective electrodes
Measurement time	Approx. 1 minute
Consumed sample	22 µL
Sample supply	Manual pipetting by twin pipette
Display	LCD (20 characters × 2 lines)
Built-in printer	36-character thermal printer (Paper width: 58 mm)
External output	RS-232C interface (serial)
Memory	50 measurements
Measurement conditions	Temperature: 10-30 °C, Humidity: 20-80 % RH (Non-condensing)
Power supply	AC100-240 V (Main power supply voltage variation must be within ±10%), 50/60 Hz
Power consumption	40 VA
Dimensions and weight	Dimensions: 135 (W) × 225 (D) × 138 (H) mm Weight: Approx 1.5 kg (Analyzer only)

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 and plasma can be measured with very small samples (only 22 µL). This greatly lightens the burden on patients, especially children and sensitive patients.

Compact size and lightweight

Together with improved basic functions, the analyzer has also become more compact and lightweight, requiring approximately A5-size (148×210 mm) space. A large table area is no longer needed.

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.

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.

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.

Convenient Twin-pipette

Special twin-pipette is available.



The simplest type, with functions needed for drawing and application of samples.

Legal manufacturer

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*Designs and specifications may be changed without prior notice.

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