

THE SPOTCHEM™ EL

ELECTROLYTE ANALYSER WITH ION-SELECTIVE ELECTRODES



- Easy calibration
- Small sample volume
- Convenient twin-pipette
- Simultaneously tests electrolytes **Na, K and Cl**
- Highly reliable electrodes
- Low maintenance
- Test results in 60 seconds

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

Small Sample Volume

Whole blood, serum, plasma and urine can be measured using a sample volume of just 22µL - allowing for quick and efficient testing.

Convenient Twin-Pipette

Two types of special pipette are available:

Twin-Pipette: drawing and application of samples

Twin-Pipette II: Measurement of multiple samples, through pooling and continuous feeding of the drawn reference solution.

Easy Calibration

Simply insert the magnetic card attached to the E-Plate to complete calibration.

Internal Printer

A printout of the three measurements is produced in just one minute.

Applications

- Small clinics
- Testing centres
- Emergency rooms
- Intensive care units
- Coronary care units
- Operating theatres
- Doctors offices



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Highly Reliable Special Electrodes

The E-Plate has 3 pairs of internal electrodes - results calculated from the potential difference generated between the sample and an equal amount of reference solution.

Automatic and Fast Results

Removal of the twin-pipette after applying the sample automatically starts the measurement.

Specifications

Sample	Whole blood, plasma, serum and urine
Electrolytes	Sodium (Na), Potassium (K) and Chloride (Cl)
Measurement	Potentiometry, by ion-selective electrodes
Principle	
Measurement Range	Whole blood/plasma/serum (<i>urine diluted to 50% with distilled water</i>) Na: 50 - 250 mmol/L (10 - 350 mmol/L) K: 1 - 15 mmol/L (1 - 80 mmol/L) Cl: 50 - 200 mmol/L (3 - 300 mmol/L)
Measurement Time	60 seconds
Sample Volume	22µL
Data Storage Volume	50 measurements
Warm-Up Time	Approximately one minute (at 25°C)
Display	20 digits x 2 lines LCD
Printer	58mm width built-in thermal printer
External Output	RS-232C (serial)
Operating Temperature	10 to 30°C
Relative Humidity	20 to 80%
Power Supply	AC100-240V 50/60Hz
Power Consumption	40VA
Weight	1.5kg
Dimensions	138h x 135w x 225d mm

3 Simple Steps



Set the exclusive E-Plate



Draw the sample and reference solution with the twin-pipette. Set pipette and apply sample to E-plate



Remove pipette. Measurement starts automatically. Results in one minute

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