

# 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	<b>Sodium (Na), Potassium (K) and Chloride (Cl)</b>
Measurement	Potentiometry, by ion-selective electrodes
Principle	electrodes
Measurement Range	<b>Whole blood/plasma/serum (urine diluted to 50% with distilled water)</b> 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	<b>Approximately one minute (at 25°C)</b>
Display	20 digits x 2 lines LCD
Printer	<b>58mm width built-in thermal printer</b>
External Output	RS-232C (serial)
Operating Temperature	<b>10 to 30°C</b>
Relative Humidity	20 to 80%
Power Supply	<b>AC100-240V 50/60Hz</b>
Power Consumption	40VA
Weight	<b>1.5kg</b>
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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