

arkray

For Hassle-free Electrolytes Testing

New Generation Dry Chemistry Electrolyte Analyzer

# SPOTCHEM™ EL

SE-1520

No Hidden  
Cost



[www.arkray.co.in](http://www.arkray.co.in)

Made in Japan

arkray healthcare Pvt. Ltd.

# ELECTROLYTES - A CRITICAL TEST



## **Quick results are necessary**

- Patients most likely will be in critical condition
- More the time to get the results - more the delay in treatment



## **Reliable results are a must**

- One should be sure of the method used for trustworthy results

SPOTCHEM™ EL can make your facility self-equipped for electrolytes testing & you can be confident about the results



## **Based on the trusted Ion Selective Electrode (ISE) Method**

- Get accurate results in just 1 minutes



## **Electrode-on-Chip (EOC) technology for efficient testing**

- 3 electrodes in-built on each E-Plate
- Measures Na, K, Cl at the same time
- Fresh electrodes for each test
- No hassles & extra cost of electrode maintenance & replacement



## **Individually packed E-plates**

- Long shelf-life of 12 months



## **Convenient Twin-Pipette for Ease of testing**

- Fixed volume (22µl) pipette to prevent measuring errors and wastage of reagents
- Used tips ejector for safe testing procedure



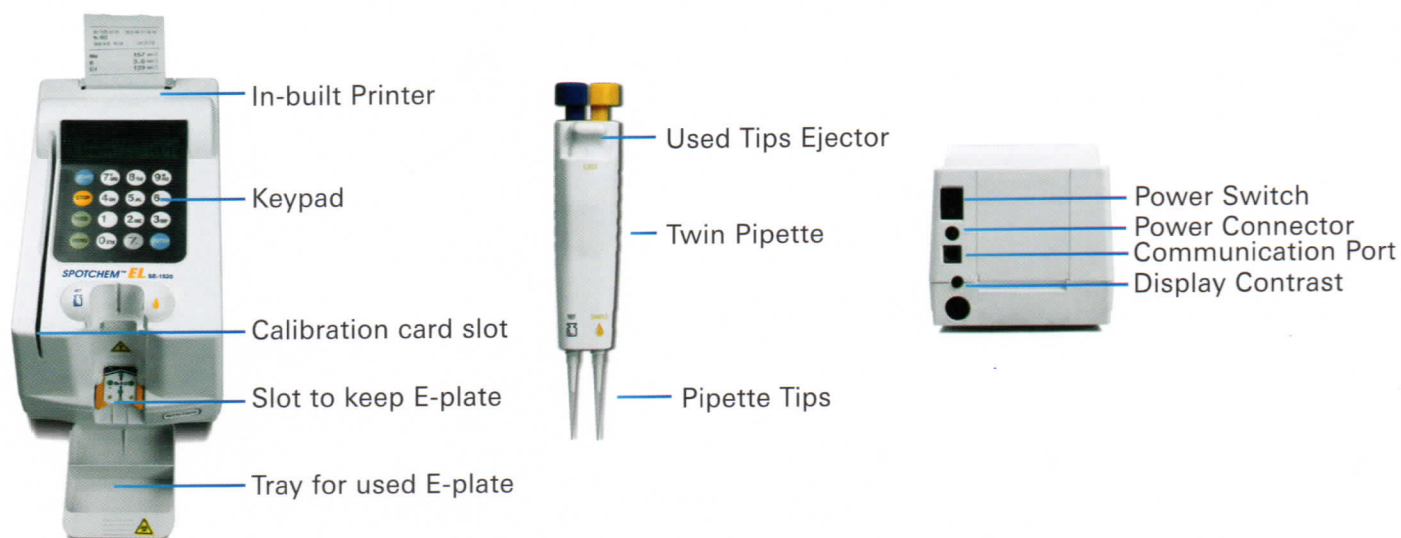
## **Magnetic card for reagent free calibration**

- Magnetic card provided with each pack of E-plates.
- Calibration can be done just by swiping the card
- Saves cost of reagents required for daily calibration





# SPOTCHEM™ EL - STATE-OF-ART DESIGN



## NO HIDDEN COST WITH SPOTCHEM™ EL

FACTORS	WET CHEMISTRY ANALYSER	SPOTCHEM™ EL
REAGENTS FOR TESTING	3 types of reagents	Single cartridge performs all 3 parameters
ELECTRODES	3 electrodes which need to be replaced every 10-12 months	Electrodes are in-built into the cartridge and no replacement needed
POWER SUPPLY	Needs 24 x 7 power supply as if instrument is shut down, electrodes will become "dry" and life will reduce	Instrument can be switched on / off as per requirement without any trouble
UPS REQUIREMENT	Definitely needed	No need
CALIBRATION	Instrument performs 3-6 calibrations / day (using reagents) irrespective of whether test is performed or not	1-time calibration using magnetic card - no reagents used during calibration
REGULAR MAINTENANCE OF FLUIDICS MECHANISM (TUBINGS, VALVES ETC)	Needs to be performed	No replaceable consumables hence not needed
TRAINED TECHNICIAN NEEDED TO PERFORM THE TEST	Yes	Test is simple and can be performed by anyone

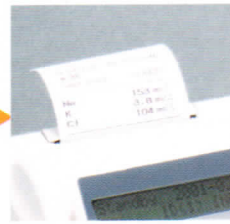
## EASY 3 STEP OPERATION



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 obtained in just one minute.

## TECHNICAL SPECIFICATIONS

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

For more information contact:

022 6155 9355 | customersupport@arkray.co.in

Scan QR Code to view detailed video of SPOTCHEM™ EI on your mobile phone

