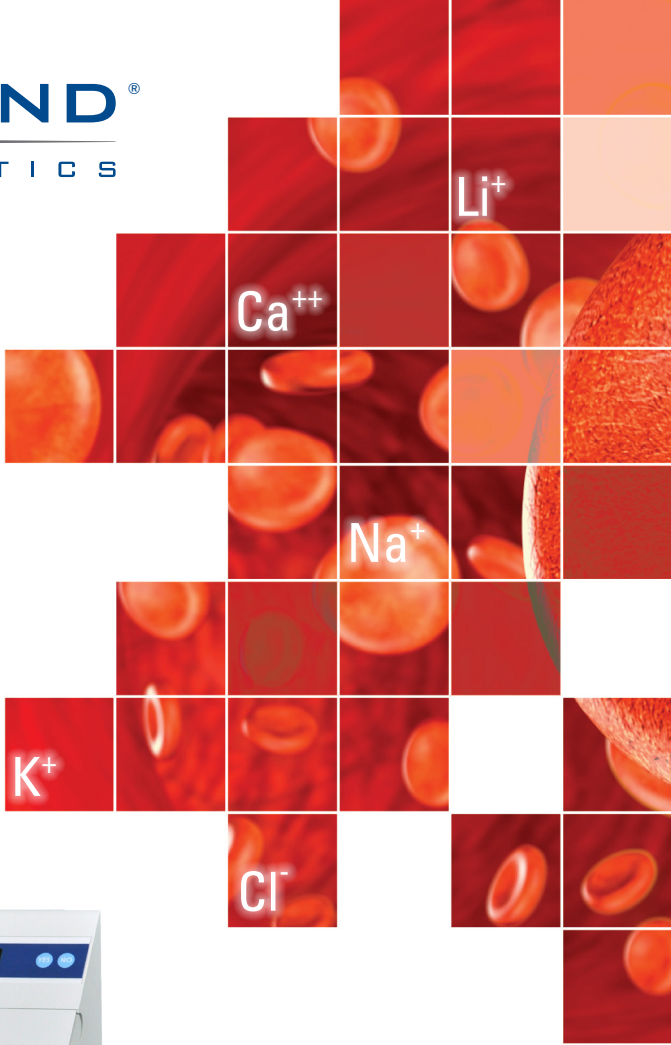


DIAMOND[®]
D I A G N O S T I C S



SMARTLYTE[®]

The World's Most Reliable Electrolyte Analyzer



SPECIFICATIONS:

Sample

Whole Blood, Serum, Plasma, Urine, or Dialysate

Sample Size

95 µl

Detection Range

Blood Na⁺: 40-200 mmol/L
Dialysate K⁺: 1.7-15 mmol/L
Cl⁻: 50-200 mmol/L
Ca⁺⁺: 0.3-5.0 mmol/L
Li⁺: 0.2-5.5 mmol/L

Urine Na⁺: 3-300 mmol/L
K⁺: 5-120* mmol/L
Cl⁻: 15-300 mmol/L

*60-120 requires additional dilution

Display Resolution

Na⁺: 1 mmol/L or 0.1 mmol/L
K⁺: 0.1 mmol/L or 0.01 mmol/L
Cl⁻: 1 mmol/L or 0.1 mmol/L
Ca⁺⁺: 0.01 mmol/L or 0.001 mmol/L
Li⁺: 0.01 mmol/L or 0.001 mmol/L

Analysis Time

60 sec without printout (60 per hour)
75 sec with printout (48 per hour)

Data Storage

1000 Patient Results
500 Level 1 QC Results
500 Level 2 QC Results
500 Level 3 QC Results

Calibration

2 point every 4 hours
1 Point after every Measurement

Reproducibility

Within Run (n=30)
Blood, Serum, Plasma, Dialysate
Na⁺: CV ≤ 1% (120-160 mmol/L)
K⁺: CV ≤ 2% (2.5-6 mmol/L)
Cl⁻: CV ≤ 2% (85-130 mmol/L)
Ca⁺⁺: SD ≤ 0.02 mmol/L (0.8 – 1.5 mmol/L)
Li⁺: SD ≤ 0.02 mmol/L (0.4 – 1.3 mmol/L)
(Lithium not typically measured in dialysate samples)

Urine

Na⁺: CV ≤ 5% (100-250 mmol/L)
K⁺: CV ≤ 5% (10-60 mmol/L)
Cl⁻: CV ≤ 5% (100-250 mmol/L)
(Calcium and Lithium are not typically measured in urine samples)

Veterinary Options

Feline, Canine, Bovine, Equine, Swine, Ovine, Open

User Input

Keypad, External Keyboard,
External Barcode Scanner (optional)

Output

Graphic backlit display
Graphic 16 column printer
RS232 LIS Serial Communication

Ambient Conditions

15-32°C, Room temperature (60-90°F)
<85% humidity

Languages

English, Chinese, French, German, Italian,
Japanese, Portuguese, Russian, Spanish,
Korean, Polish

Power

100-240V ~ 50/60 Hz (self adjusting)
1.6 A max, 50 Watts max

Size & Weight

13.2 x 12.4 x 12 inches or 335 x 315 x 295 mm
14 lbs or 6 Kgs

This analyzer is produced and distributed by Diamond Diagnostics Inc.

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