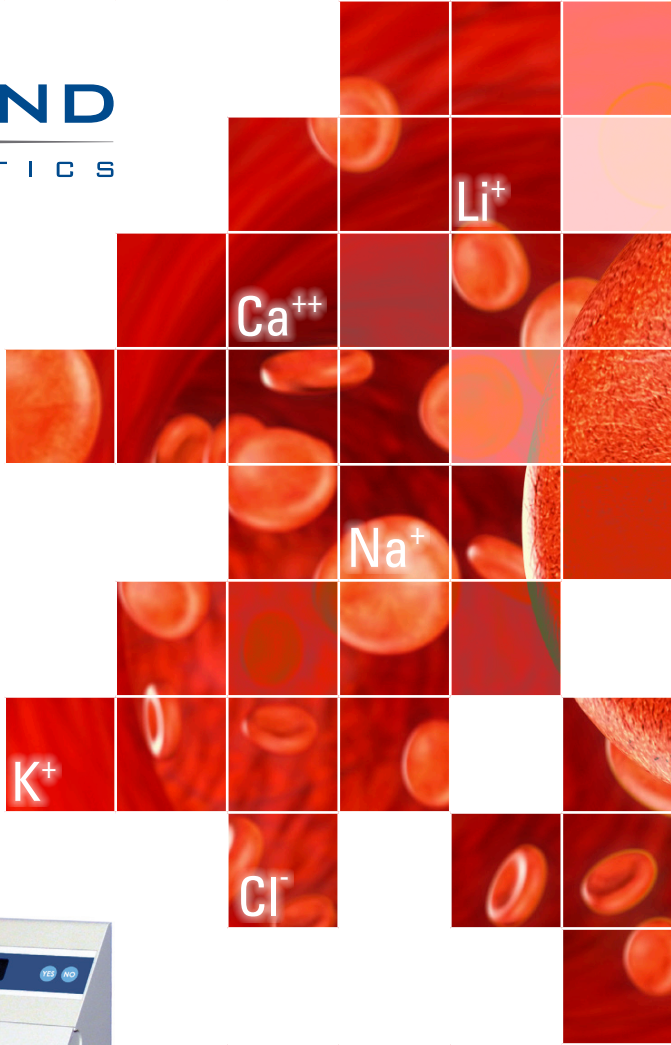


DIAMOND

DIAGNOSTICS



SMARTLYTE™

The World's Most Reliable Electrolyte Analyzer



SPECIFICATIONS:

Sample

Whole Blood, Serum, Plasma, or Urine

Sample Size

95 µl

Detection Range

Blood Na⁺: 40-200 mmol/L
K⁺: 1.7-15 mmol/L
Cl⁻: 50-200 mmol/L
Ca²⁺: 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
iCa²⁺: 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)
80 sec with printout (45 per hour)

Data Storage

QC: 3 levels 35 days
Calculation of mean, SD, CV

Calibration

2 point every 4 hours
1 point every measurement

Reproducibility

Within Run (n=20)
Blood, Serum, Plasma
Na⁺: CV ≤ 1% (120-160 mmol/L)
K⁺: CV ≤ 2% (2.5-6 mmol/L)
Cl⁻: CV ≤ 2% (85-130 mmol/L)
iCa²⁺: SD ≤ 0.02 mmol/L (0.8 – 1.5 mmol/L)
Li⁺: SD ≤ 0.02 mmol/L (0.4 – 1.3 mmol/L)

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

Output

16x2 place alphanumeric display
16-character width printer
RS232C serial port

Ambient Conditions

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

Power

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

Size

13.2 x 12.4 x 12 inches or 335 x 315 x 295 mm

Weight

14 lbs or 6 Kgs

This analyzer is produced and distributed by Diamond Diagnostics Inc. There is no affiliation, connection, sponsorship or association between Diamond Diagnostics Inc. and Roche Diagnostics.