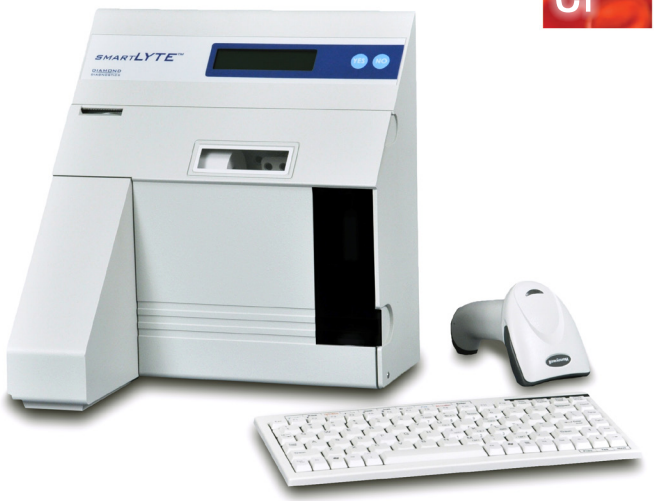
DIAMOND®

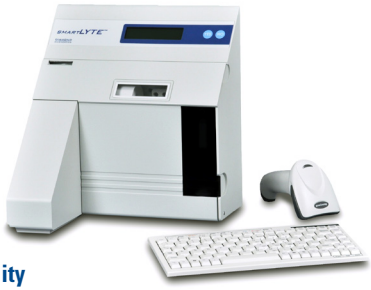
DIAGNOSTICS



SMARTLYTE®

The World's Most Reliable Electrolyte Analyzer

SMARTLYTE®



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
RS232C serial port

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.
There is no affiliation, connection, sponsorship or association between Diamond Diagnostics Inc. and Roche Diagnostics.

DIAMOND® DIAGNOSTICS

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