

**DIAMOND**<sup>®</sup>  
D I A G N O S T I C S



$Li^+$



**CARELYTE**<sup>®</sup>

The Choice for Veterinary Laboratories



## SPECIFICATIONS:

### Sample

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

### Sample Type

Whole Blood, Serum, Plasma, Urine, or Dialysate

### Sample Size

95 µl

### Detection Range

Blood Na<sup>+</sup>: 40-200 mmol/L

Dialysate K<sup>+</sup>: 1.7-15 mmol/L

Cl<sup>-</sup>: 50-200 mmol/L

Ca<sup>++</sup>: 0.3-5.0 mmol/L

Li<sup>+</sup>: 0.2-5.5 mmol/L

Urine Na<sup>+</sup>: 3-300 mmol/L

K<sup>+</sup>: 5-120\* mmol/L

Cl<sup>-</sup>: 15-300 mmol/L

\*60-120 requires additional dilution

### Display Resolution

Na<sup>+</sup>: 1 mmol/L or 0.1 mmol/L

K<sup>+</sup>: 0.1 mmol/L or 0.01 mmol/L

Cl<sup>-</sup>: 1 mmol/L or 0.1 mmol/L

Ca<sup>++</sup>: 0.01 mmol/L or 0.001 mmol/L

Li<sup>+</sup>: 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<sup>+</sup>: CV ≤ 1% (120-160 mmol/L)

K<sup>+</sup>: CV ≤ 2% (2.5-6 mmol/L)

Cl<sup>-</sup>: CV ≤ 2% (85-130 mmol/L)

Ca<sup>++</sup>: SD ≤ 0.02 mmol/L (0.8 – 1.5 mmol/L)

Li<sup>+</sup>: SD ≤ 0.02 mmol/L (0.4 – 1.3 mmol/L)

(Lithium not typically measured in dialysate samples)

Urine

Na<sup>+</sup>: CV ≤ 5% (100-250 mmol/L)

K<sup>+</sup>: CV ≤ 5% (10-60 mmol/L)

Cl<sup>-</sup>: CV ≤ 5% (100-250 mmol/L)

(Calcium and Lithium are not typically measured in urine samples)

### 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

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