

DIAMOND

D I A G N O S T I C S



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The Choice for Veterinary Laboratories



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SPECIFICATIONS:

Sample

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

Sample Type

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)

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

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