

# DIAMOND<sup>®</sup>

DIAGNOSTICS



## SmartLyte<sup>®</sup> PLUS

The World's Most Advanced Electrolyte Analyzer



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## Sample

Whole Blood, Serum, Plasma, Urine or Dialysate

## Sample Size

95 µl

## Number of Parameters

4 (Simultaneously)

## 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

## Reproducibility

Typical Within Run (n=30)

Blood, Serum, Plasma, Dialysate

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

## 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

## Veterinary Options

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



## Analysis Time

45 sec without printout (72 per hour)

60 sec with printout (60 per hour)

## Data Storage

1000 Patient Results

500 Level QC Results (3 levels)

## Calibration

2 Point every 4 hours

On Demand

1 Point after every Measurement

## User Input

Touch Screen

USB Keyboard / Barcode Scanner (optional)

## Output

Color 5" display 800 x 480 pixels

Graphic 16 column printer

LAN / RS232 LIS Communication

## Features

Wifi, Bluetooth, 4 USB ports, LAN

## Ambient Conditions

15-32°C, Room temperature (60-90°F)

<85% humidity

## Languages

English, Chinese, French, German, Italian, Korean  
Japanese, Portuguese, Russian, Spanish, 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" 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.

\* Not Commercially Available in the United States

**DIAMOND<sup>®</sup>**

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