Unity™
Integrated Electrolyte System
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Sample
Serum or Diluted Urine

Sample Size
60 - 100 µl Serum
140 - 150 µl Urine

Number of Parameters
3 (Simultaneously)

Detection Range
Serum Na⁺: 50-200 mmol/L
K⁺: 1.5-10.00 mmol/L
Cl⁻: 50-200 mmol/L
Urine Na⁺: 20-500 mmol/L
K⁺: 5-300 mmol/L
Cl⁻: 10-500 mmol/L

Reproducibility
Typical Within Run (n=30)
Serum
Na⁺: CV ≤ 1% (120-160 mmol/L)
K⁺: CV ≤ 2% (2.8-6 mmol/L)
Cl⁻: CV ≤ 2% (80-120 mmol/L)
Urine
Na⁺: CV ≤ 5% (60-280 mmol/L)
K⁺: CV ≤ 5% (30-170 mmol/L)
Cl⁻: CV ≤ 5% (80-230 mmol/L)

Analysis Time
Serum: 30 sec (100 per hour)
Urine: 60 sec (50 per hour)

Data Storage
2000 Patient Results
500 QC Results per level (3)
100 Calibrations

Calibration
2 Point every 8 hours
On Demand
1 Point after every Measurement

Communication
RS232 Communication

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

Power
12VDC, 2.0A

Size & Weight
92 mm (H) x 134 mm (W) x 46 mm (D)
3.70” (H) x 5.27” (W) x 1.81” (D)

Features
• Compact Size
• Flexible Reagent System
• Fully Shielded Measurement Chamber
• Built-In Modular Sample Cup Option
• Long Life Reference
• Positive Engagement Latching System
• Accessible Service Area
• Fully Visible Pathway
• Horizontal Electrode Orientation
• Precise Stepper Motor Fluidic Control

This analyzer is produced and distributed by Diamond Diagnostics Inc.