

SPECTRUM



SpectraLyte[®]

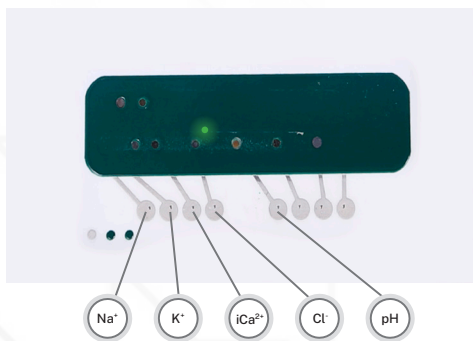
Electrolyte Analyzer

A Disruptive Innovation
with Multi-biosensor
Technology

The Spectralyte-E4 electrolyte analyzer is a state-of-the-art device that incorporates Multi biosensor technology, top-quality components, and a streamlined daily routine to enhance productivity, turnaround time, and accuracy of results. With the ability to measure Na^+ , K^+ , Cl^- , iCa^{2+} , and pH levels, this analyzer takes laboratory measurements to unprecedented heights. The cutting-edge solid ISE technology used in the Spectralyte-E4 ensures that it is easy to use, efficient in operation, and highly dependable.

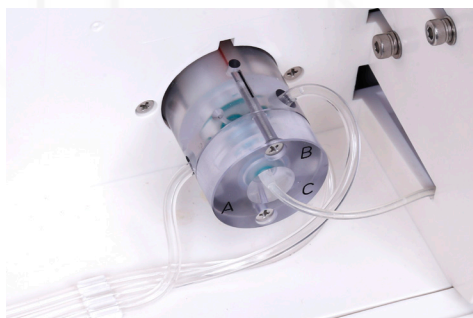


Experience the quality with Multi Biosensor Technology



Cutting-Edge Technology

- Multi-Biosensor Technology
- Maintenance-free
- Advanced connectivity
- Low reagent consumption
- Low sample consumption



Latest Design

- Stable and robust fluidic system
- Use of advanced rotary valve for higher stability
- Maintenance free design



Easy to Use

- Dedicated reagent pack
- Easy to replace
- Inside Waste provision

Features & Advantages

- 1 5.6 inch touch screen makes operation more convenient.
- 2 Advanced Multi-Biosensor Technology (MBT) permits maintenance-free electrode.
- 3 Close reagent pack is easy to replace.
- 4 Multi-level calibrators and controls secure results accuracy.
- 5 User friendly operation and quick trouble shooting.
- 6 High throughput gives each test result within half a minute.
- 7 Up to 6000 sample results storage and easy to review.

Reagent Pack Size and Spectralyte E series availability



SpectraLyte-E3	K^+ , Na^+ , Cl^-
SpectraLyte-E4	K^+ , Na^+ , Cl^- , iCa^{2+} , pH
SpectraLyte-E4 AL	K^+ , Na^+ , Cl^- , iCa^{2+} , pH with Sample Autoloader for higher sample workload

Technical Specifications

Method: Multi-Biosensor Technology
Speed: ≥ 100 Samples/hour
Touchscreen: Coloured Touchscreen Display
Operating Conditions: 10-30°C / ≤ 70% (25°C) Humidity
Display: 5.6 inches graphic display
Electronics: Microprocessor controlled
Power: AC 110-220 V, ~50Hz (Self adjusting)
Connectivity: 2 x USB-A, 1 x USB-B, 1 x LAN, 1 x RS232
Dimension: HxWxD: 455 x 275 x 480 mm
Weight: 6 kg
Auto Sampler: Optional
Printout: Built-in, Thermal printer, 16 character width
Barcode Scanner: Sample/Patient ID

Approvals: ISO9001, ISO13485
Parameters: Na⁺, K⁺, iCa²⁺, Cl⁻, pH
Technology: Electrochemistry, Multi-Biosensor Technology
Principle: Direct measurement
Sample Type: Serum, dil. urine, aqueous sol.
Sample Quantity (µL): 60-120
Sample Application: Sample cup, collection tube, capillary, syringe
Data Storage: 6000 samples
Analysis Time: 35 sec
Language/s: English & others on demand
1-point calibration: Automatic 1-point calibration with every sample
2-point calibration: Automatic 2-point calibration every 12 hours or on demand
Standby Mode: Automatically controlled or user defined

Performance	Detection Range (mmol/L)	Precision (CV)	Resolution (mmol/L)
K ⁺	0.50 ~ 20.00	≤1.0%	0.01
Na ⁺	15.00 ~ 200.00	≤1.0%	0.1
Cl ⁻	15.00 ~ 200.00	≤1.0%	0.1
iCa ²⁺	0.10 ~ 6.00	≤1.0%	0.01
pH	4.00 ~ 9.00	≤1.0%	0.01

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