

ST-100B[®]

Electrolyte Analyzer

SENSA[®]CORE



CE IVD ISO 9001 ISO 13485

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RELIABLE EASY TO USE
EASY TO AFFORD

Features

- + Compact, economical and easy to use
- + Excellent precision and reliability
- + Long life, maintenance-free electrodes
- + Extremely low cost per test
- + Automatic sampling, probe wiping and calibration
- + High precision pump with more durable tubing
- + Single reagent pack containing reagent & waste reagent

Parameter	Measuring Range Blood	Reproducibility (CV%)	Measuring Range Urine	Reproducibility (CV%)
Na ⁺	20.0 - 250.0 mmol/L	< 1.0%	25.0 - 1000.0 mmol/L	< 5.0%
K ⁺	0.20 - 40.0 mmol/L	< 2.0%	1.0 - 500.0 mmol/L	< 5.0%
Cl ⁻	20.0 - 200.0 mmol/L	< 1.0%	25.0 - 500.0 mmol/L	< 5.0%
iCa ⁺⁺	0 - 10.0 mmol/L	< 2.0%	***	***
Li	0 - 10.0 mmol/L	< 2.0%	***	***
pH	5 - 8	< 2.0%	***	***
HCO ₃ ⁻	5.0 - 50.0 mmol/L	< 3.0%	***	***

Specifications

1. Principle : Direct measurement with ion selective electrode (ISE).
2. Intended Use : The Electrolyte Analyzer (Ion-selective analyzer) is used for quantitative determination/measurement of Sodium, Potassium, Calcium, Lithium, pH, HCO₃ and Chloride in whole blood/plasma/serum/CSF. And it is also used for quantitative determination/measurement of Sodium, Potassium and Chloride in urine. The Electrolyte Analyzer made for clinical laboratory testing use only.
3. Parameter conversion : This functionality allows quick change of analyte.
4. Sample : Whole blood, serum, plasma, CSF and diluted urine.
for diluted (1:5) urine 500 micro liter.
5. Sample Volume : 150 micro liter.
6. Non Detectable Mode : 250 micro liter.
7. Measuring time : 65 sec.
8. Throughput : 50 Samples / Hour .
9. Data Storage : 1 lakh Sample, 25000 Urine, 100 QC.
10. Ambient conditions : Temperature: 5°C - 40°C , <85% non-condensing humidity.
11. Output : 128x64 graphics display with Y/N numeric keypad,
24 column thermal printer, Serial USB port.
12. Input voltage : 100/115-VAC, 50-60 Hz or 220-VAC, 50-60 Hz, 0.75 amp.
13. Size & Weight : 15.1" W x 13.2" H x 7.5" D, 4 kg.
14. Battery : Optional for 6hrs backup.



Electrolyte Analyzer Models

Electrode Parameters

BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD	BD
K	K	K	K	K	K	K	K	K	K	K	K
Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na	Na
B	B	iCa	iCa	iCa	iCa	iCa	iCa	iCa	iCa	iCa	B
B	B	B	B	Li	pH	Li	pH	Li	Li	pH	pH
B	B	B	B	B	B	pH	B	B	pH	HCO ₃	HCO ₃
B	Cl	B	Cl	B	B	B	Cl	Cl	Cl	Cl	Cl
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫

Note: Please Arrange The Electrodes As Per The Parameter Selection