

ST-200 aQua[®]

Electrolyte Analyzer



Parameters	Cal B mV	Cal C mV	Cal A mV	Slope	Status
pH	4.2	-22.3	-14.1	73.24	Pass
HCO ₃	93.0	42.2	88.4	60.72	Pass
Na ⁺	-7.0	NA	-49.0	63.11	Pass
K ⁺	26.2	NA	54.9	66.92	Pass
iCa ⁺⁺	58.1	NA	76.9	36.09	Pass
Cl ⁻	110.0	131.3	135.5	90.03	Pass
Li ⁺	NA	NA	NA	NA	NA
Tref	25.2				

ST-200 aQua
HCO₃ Reagent Pack

Sensa Core's ST-200 aQua Electrolyte Analyzer is completely automated, microprocessor controlled electrolyte system that uses current ISE technology to make electrolyte measurements. The ST-200 aQua product measures various combinations of Sodium, Potassium, Ionized Calcium, Bicarbonate, pH, Chloride and Lithium in Whole blood, serum, plasma, CSF and diluted urine.

Analyzer's Advantages

Easy to Operate



Accurate Results



Minimal Maintenance



Economical



Bar Code Scanner



Mouse

- | Measuring Time 75 Seconds
- + Minimal Sample Volume (120µL)
- + Long Life, Maintenance free Electrodes



Features

- Aspirate 1 sample and acquire 14 different results.
- Electrolytes** : Na⁺, K⁺, iCa⁺⁺, Li⁺, pH, HCO₃⁻, Cl⁻.
- Calculated Parameters** : nCa, TCa, pCO₂, TCO₂, BE, BE-ECF, AG(Na), AG(K).
- Multilingual support.
- Levey-Jennings chart for NABL and seamless integration to LIS (Lab information system).
- 7 inch high definition LCD with capacitive touch display.
- Excellent precision and reliability.
- Integrated Parameter conversion functionality.
- One single Reagent Pack with all 12 combinations.
- Numeric & alpha numeric input option with 15 digit operator & patient ID.
- External barcode scanner, mouse & keypad interfacing option.
- Self-calibration once new reagent pack is installed.
- Maximum 1,00,000 samples storage capacity.
- The result can be recalled by Date, Patient ID, Patient name, by parameters etc.
- Extremely low cost per test.
- Two USB output ports. (USB 2.0)
- Optional battery backup & much more.

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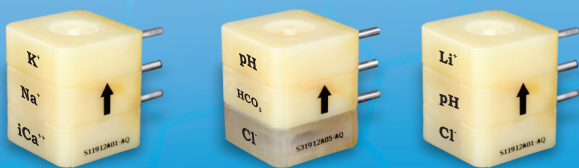
Electrolyte Analyzer

HCO₃⁻

Specifications

- Principle : Direct measurement with ion selective electrode (ISE).
- Parameters : This functionality allows the change of analytes.
- Sample Type : Whole blood, serum, plasma, CSF and diluted urine.
- Sample volume : 120 µL
500 µL for diluted urine
- Reading time : 75 Seconds
- Speed : 48 Samples / hour
- Storage : 1,00,000 Samples
- Conditioning : Storage 5°C to 40°C (41°F to 104°F) and relative humidity 10-90%
Operating 15°C to 35°C (59°F to 95°F) and relative humidity 10-90%
- Display : 7 inch high definition LCD with capacitive touch.
- Print : 2 inch 24 column thermal printer.
- Input voltage : 100-240V AC, 50/60Hz, 1.4A
- Dimensions : 15.1" W x 13.2" H x 8.7" D,
Weight: 4.7 kg (without pack).
- Battery : Optional (2 hours in standby mode).
- OS : Android. (WiFi enabled application up-gradable)

Parameter	Measuring Range Blood	Reproducibility (CV%)	Measuring Range Urine	Reproducibility (CV%)
Na ⁺	20.0 - 200.0 mmol/L	< 1.0%	25 - 1000 mmol/L	< 5.0%
K ⁺	0.2 - 40.0 mmol/L	< 2.0%	1.0 - 500 mmol/L	< 5.0%
Cl ⁻	25.0 - 200.0 mmol/L	< 1.0%	25 - 500 mmol/L	< 5.0%
iCa ⁺⁺	0.1 - 6.0 mmol/L	< 2.0%	50 - 1000 mmol/L	< 5.0%
Li ⁺	0.2 - 5.0 mmol/L	< 2.0%	***	***
pH	6.5 - 8.0	± 0.03	***	***
HCO ₃ ⁻	5.0 - 50.0 mmol/L	< 3.0%	***	***



HCO ₃ ⁻		ELECTROLYTE									
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	iCa	iCa	iCa	iCa	iCa	iCa	iCa	iCa	B	B	B
pH	pH	Li	Li	B	Li	pH	Li	B	B	B	B
HCO ₃ ⁻	HCO ₃ ⁻	pH	B	pH	pH	B	B	B	B	B	B
Cl	Cl	Cl	Cl	Cl	B	B	B	Cl	B	Cl	B
1	2	3	4	5	6	7	8	9	10	11	12
Parameter Combinations											

