

AC9801 Fully Automated Electrolyte Analyzer

TECHNICAL SPECIFICATIONS

Parameter	Specification
Measuring Items	K ⁺ , Na ⁺ , Cl ⁻ , Ca ²⁺ , pH
Calculated Items	nCa, TCa
Measuring Method	Ion-Selective Electrode (ISE)
Measuring / Operation Time	~25 seconds for measurement; approx. 40 seconds for sampling + measuring + washing + printing
Sample Volume	100 µL (manual positioning ~60 µL possible)
Display & Printer	240 × 64 LCD display; 58 mm thermal printer
Data Storage Capacity	~10,000 records, with automatic refresh when full
Communication Interface	RS-232 interface
Operating Conditions	Temperature: 10-32 °C; Relative Humidity ≤ 85%
Power Supply	AC 220 V ±22 V, 50 Hz; power consumption ~25 W
Size / Weight	Approx. 380 × 290 × 310 mm; weight ~6 kg
Accuracy / Precision (typical)	K ⁺ : 0.50-15.00 mmol/L; Na ⁺ : 30.0-200.0 mmol/L; Cl ⁻ : 30.0-200.0 mmol/L; Ca ²⁺ : 0.10-5.00 mmol/L; pH: 4.0-9.0. Resolving power: 0.01 (for K, Ca, pH), 0.1 (for Na, Cl); CV (coefficient of variation) ≤ 1.0% across those ranges.

The SAC9801 (also marketed as AC9801) is a compact, in-vitro diagnostic electrolyte analyzer that uses ion-selective electrode (ISE) technology to measure key electrolytes (K⁺, Na⁺, Cl⁻, Ca²⁺) and pH, and to calculate related parameters like total and non-ionized calcium. It delivers test results in about 25 seconds, handles sample-measuring-washing-printing cycles in approximately 40 seconds, requires a small sample volume (~100 µL), includes built-in data storage, display, and thermal printing capabilities. It's designed for clinical laboratories where fast, accurate electrolyte measurement is needed under standard ambient conditions (~10-32 °C, ≤85% humidity), and is suitably sized/weighted for benchtop use.

Measuring item	Blood sample measuring range	Urine sample measuring range	Accuracy	Precision
K	0.50~15.00 mmol/L	5.0~150.0 mmol/L	≤±3.0%	CV≤1.5%
Na	30.0~200.0 mmol/L	10.0~350.0 mmol/L	≤±3.0%	CV≤1.5%
Cl	30.0~200.0 mmol/L	10.0~300.0 mmol/L	≤±3.0%	CV≤1.5%
Ca	0.10~5.00 mmol/L	—	≤±5.0% or ±0.05mmol/L	CV≤1.5%
pH	4.0~9.00 mmol/L	—	≤0.15	CV≤1.0%

INCLUSIONS

FREE THERMAL ROLL (1 PC 8X20MM)

ITEM	PRICE
AC9801 Fully Automated Electrolyte Analyzer	

1 YEAR WARRANTY!!
FREE DELIVERY NATIONWIDE!!!