

Convergys[®] ISE auto

Fully-automatic Electrolyte Analyzer

The comfortable way of Electrolyte Analysis



- **Measured Parameters:**
K⁺, Na⁺, Cl⁻, Ca⁺⁺, Li⁺, pH
and TCO₂ as optional
- Autosampler for 24 samples and
1 emergency sample
- 100 µl sample volume of
whole Blood, Serum, Plasma,
Urine or CSF
- 60 tests per hour throughput

- Optional TCO₂ measuring module
- Built-in thermal printer
- Automatic two-point calibration
- 2 level QC management and
integrated statistical analysis
- 240x128 dots touch LCD
- Large data storage for 500 results
- Integrated air-liquid-air-liquid
rinsing mode to avoid carry-over

Specifications of Convergys® ISE auto

Measured Parameters:	K+, Na+, Cl-, Ca++, Li+, pH and TCO ₂ as optional
Measuring principles:	ISE based Electrolyte analysis to determine the ion concentrations of K+, Na+, Cl-, Ca++, Li+, pH, Pressure method and reaction solution for determination of TCO ₂ concentration
Throughput:	60 tests/hour
Reagent system:	Calibrator-1 solution, Calibrator-2 solution, Cleaning solution, ISE and Ref electrode filling solution, TCO ₂ reaction solution as optional
Sampling method:	Fully-automatic aspiration system, using Sample Cup, Capillary or Collection Tube
Sample volume:	100 µL
Sample types:	Human (general): whole Blood, Serum, Plasma, Urine or CSF (Built-in reference ranges)
Cleaning procedure:	Chemical cleaning of the measuring chamber and tubing system with Cleaning solution
Quality Control:	2 QC levels. QC parameters include all measured parameters Separate QC database Option for automatic calculation of K and D factors of each ion
Calibration:	Automatic two-point calibration with additional option for carrying out one-point and two-point calibration manually
Standby Mode:	Pre-adjusted with automatic calibration step
User interface:	Easy-to-use, menu driven user interface with touch LCD
Diagnostics:	Self check function for diagnostics with easy to understand messages
Languages available:	English menu
Data capacity:	500 results
Host computer Interface:	RS-232 serial link for data download
Built-in printer:	Stationary Head Graphical Thermal Printer, 58 mm wide paper roll. Prints full report
Display:	240x128 dots high contrast and backlit touch LCD
Power requirements:	100-120 or 200-240 VAC, 50-60Hz
Operating conditions:	15-30°C, 59-86°F (Optimal temperature is 25 °C, 77 °F), 20%~ 80% RH
Dimensions and weight:	(W x D x H) 300 x 290 x 275mm, ca. 6.5 kg

Measured parameters

Parameter	Measuring range	Precision	SD	CV
Potassium ion (K+)	0.50 - 15.00 mmol/L	0.01 mmol/L	≤0.08	≤1.0%
Sodium ion (Na+)	80.0 - 200.0 mmol/L	0.1 mmol/L	≤3.00	≤1.0%
Chloride ion (Cl-)	80.0 - 200.0 mmol/L	0.1 mmol/L	≤2.00	≤1.0%
Ionized calcium (Ca++)	0.50 - 5.00 mmol/L	0.01 mmol/L	≤0.05	≤2.0%
Lithium ion (Li+)	0.10 - 4.00 mmol/L	0.01 mmol/L	≤0.06	≤3.0%
Hydrogen ion activity (pH)	6.80 - 8.00	0.01	≤0.05	≤1.0%
Total Bicarbonate (TCO ₂)	5.0 - 50.0 mmol/L	0.1 mmol/L	≤0.70	≤3.0%

Ordering information

REF	Articel Name	Description
1100-1040	Convergys® ISE auto Analyzer M03	Fully-automatic Electrolyte Analyzer, K+, Na+, Cl-
1100-1041	Convergys® ISE auto Analyzer M03	Fully-automatic Electrolyte Analyzer, K+, Na+, Li+
1100-1042	Convergys® ISE auto Analyzer M03	Fully-automatic Electrolyte Analyzer, K+, Na+, Ca++
1100-1043	Convergys® ISE auto Analyzer M03- TCO ₂	Fully-automatic Electrolyte Analyzer, K+, Na+, Cl-, TCO ₂
1100-1044	Convergys® ISE auto Analyzer M03 -TCO ₂	Fully-automatic Electrolyte Analyzer, K+, Na+, Li+, TCO ₂
1100-1045	Convergys® ISE auto Analyzer M03 -TCO ₂	Fully-automatic Electrolyte Analyzer, K+, Na+, Ca++, TCO ₂
1100-1046	Convergys® ISE comfort Analyzer M06	Fully-automatic Electrolyte Analyzer, K+, Na+, Cl, Ca++, Li+, pH
1100-1047	Convergys® ISE comfort Analyzer M06-TCO ₂	Fully-automatic Electrolyte Analyzer, K+, Na+, Cl, Ca++, Li+, pH, TCO ₂
1100-1014	Convergys® ISE Calibrator-1 (480ml)	Standard Calibrator-1 solution
1100-1015	Convergys® ISE Calibrator-2 (200ml)	Standard Calibrator-2 solution
1100-1012	Convergys® ISE Cleaning solution (20ml)	Standard Cleaning solution

* Convergent Technologies reserves the right to change any of the specifications without prior notice.

** Usage of original Convergent Technologies reagents is recommended

*** Full specifications are available on request