

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**

- **LIMS connectivity**
- **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 Convergy's® 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 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 in a separate QC database. Option for automatic calculation of slope and intercept.
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
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	Resolution	Precision	Accuracy
Potassium ion (K ⁺)	0.50 - 15.00 mmol/L	0.01 mmol/L	≤1.0 %	≤3.0 %
Sodium ion (Na ⁺)	80.0 - 200.0 mmol/L	0.1 mmol/L	≤1.0 %	≤3.0 %
Chloride ion (Cl ⁻)	80.0 - 200.0 mmol/L	0.1 mmol/L	≤1.0 %	≤3.0 %
Ionized calcium (Ca ⁺⁺)	0.50 - 5.00 mmol/L	0.01 mmol/L	≤2.0 %	≤5.0 %
Lithium ion (Li ⁺)	0.10 - 4.00 mmol/L	0.01 mmol/L	≤3.0 %	≤5.0 %
Hydrogen ion activity (pH)	6.80 - 8.00	0.01	≤1.0 %	≤1.0 %
Total Bicarbonate (TCO ₂)	5.0 - 50.0 mmol/L	0.1 mmol/L	≤3.0 %	≤5.0 %

Ordering information

REF	Article Name	Description
1100-1040	Convergy's® ISE auto Analyzer M03	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Cl ⁻
1100-1041	Convergy's® ISE auto Analyzer M03	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Li ⁺
1100-1042	Convergy's® ISE auto Analyzer M03	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Ca ⁺⁺
1100-1043	Convergy's® ISE auto Analyzer M03- TCO2	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Cl ⁻ , TCO ₂
1100-1044	Convergy's® ISE auto Analyzer M03- TCO2	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Li ⁺ , TCO ₂
1100-1045	Convergy's® ISE auto Analyzer M03- TCO2	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Ca ⁺⁺ , TCO ₂
1100-1046	Convergy's® ISE auto Analyzer M06	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Cl ⁻ , Ca ⁺⁺ , Li ⁺ , pH
1100-1047	Convergy's® ISE auto Analyzer M06- TCO2	Fully-automatic Electrolyte Analyzer, K ⁺ , Na ⁺ , Cl ⁻ , Ca ⁺⁺ , Li ⁺ , pH, TCO ₂
1100-1039	Convergy's® ISE auto Calibrator-1 (480ml)	Standard Calibrator-1 solution
1100-1038	Convergy's® ISE auto Calibrator-2 (200ml)	Standard Calibrator-2 solution
1100-1012	Convergy's® 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 mandatory

*** Full specifications are available on request