Convergys® ISE comfort Electrolyte Analyzer

The comfortable way of Electrolyte Analysis

- Measured Parameters: K^+, Na^+, Cl^-, Ca^{++}, Li^+, pH
- 100 µl sample volume of whole Blood, Serum, Plasma, Urine or CSF
- 60 tests per hour throughput
- Built-in thermal printer
- Automatic two-point calibration
- 2 level QC management
- 128x64 dots LCD
- Easy-to-use menu with soft key interface
- Large data storage for 250 results
- Integrated air-liquid-air-liquid rinsing mode to avoid carry over

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Specifications of Convergys® ISE comfort

Measured Parameters:	K^+, Na^+, Cl^-, Ca^{++}, Li^+, pH
Measuring principle:	ISE based Electrolyte analysis to determine the ion concentrations of K^+, Na^+, Cl^-, Ca^{++}, Li^+, pH
Throughput:	60 tests/hour
Reagent system:	Calibrator-1 solution, Calibrator-2 solution, Cleaning Solution, ISE and Ref electrode filling solution
Sampling method:	Semi-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
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 soft keys
Languages available:	English menu
Data capacity:	250 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:	128x64 dots high contrast and backlit LCD
Keypad:	3 soft keys for simple use
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 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 %

Ordering information

REF	Article Name	Description
1100-1035	*Convergys® ISE comfort Analyzer M03*	Semi-automatic Electrolyte Analyzer, K^+, Na^+, Cl^-
1100-1036	*Convergys® ISE comfort Analyzer M03*	Semi-automatic Electrolyte Analyzer, K^+, Na^+, Li^+
1100-1037	*Convergys® ISE comfort Analyzer M05*	Semi-automatic Electrolyte Analyzer, K^+, Na^+, Cl^-, Ca^{++}, pH
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*	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

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