ES-4000

Electrolyte Analyzer

LABORATORY

Description

- *7" Color touch screen, easy to operate*
- *High accurate and long life electrode and TCO2 sensor*
- *Programmable multi-format print-out*
- *Reagent pack, real time monitoring of reagent residual volume*
- *Up to 50.000 test results can be stored*
- *RS-232 port, supporting bar code reader and USB interface*
- *Sleep mode to reduce reagent consumption*
- *Option: Sample try*

Parameter configuration

F) *-K, Na, Cl, Li*
H) *-K, Na, Cl, iCa, nCa, TCa, pH, Li*
I) *-K, Na, Cl, iCa, nCa, TCa, pH, Li, TCO2, Ag*
J) *-K, Na, Cl, Mg*
K) *-K, Na, Cl, iCa, pH, Mg*
L) *-K, Na, Cl, iCa, nCa, TCa, pH, Mg, TCO2, Ag*
M) *-K, Na, Cl, iCa, nCa, TCa, pH, Li, Mg, TCO2, Ag*

Model	Items
F	K, Na, Cl, Li
H	K, Na, Cl, iCa, nCa, TCa, pH, Li
I	K, Na, Cl, iCa, nCa, TCa, pH, Li, TCO_2, Ag
J	K, Na, Cl, Mg
K	K, Na, Cl, iCa, pH, Mg
L	K, Na, Cl, iCa, nCa, TCa, pH, Mg, TCO_2, Ag
M	K, Na, Cl, iCa, nCa, TCa, pH, Li, Mg, TCO_2, Ag

Specification

Sample: serum, plasma, whole blood, cerebrospinal fluid and dilute urine.
Analysis Method: ion selective electrode (ISE)
Measuring speed: ≤ 25s
Sample volume: 60 - 300μl (item III to item XI)
Sample position: 39 positions (including 5 emergency and 2 QC)
Storage: up to 10000 test results
Printer : internal thermal printer
Interface : RS232 port

Items	Measuring Range	Resolution	Measuring Precision (CV%)
K^+	0.5 - 20.0 mmol/L	0.01 mmol/L	≤ 1.0%
Na^+	15 - 200 mmol/L	0.1 mmol/L	≤ 1.0%
Cl	15 - 200 mmol/L	0.1 mmol/L	≤ 1.0%
Ca^{2+}	0.1 - 6.0 mmol/L	0.01 mmol/L	≤ 1.0%
Li^+	0.1 - 5.0 mmol/L	0.01 mmol/L	≤ 2.0%
pH	4 - 9 pH	0.01 pH	≤ 0.5%
TCO_2	2.0 - 70.0 mmol/L	0.1 mmol/L	≤ 3.0%

Main Features

Human-machine interactive menu; Dynamic and real-time display of sample ID.
Liquid level automatic detection and alarming.
Real-time diagnostic of system working status.
Automatically detect and filter tiny bubbles to avoid clog and ensure accurate measurement.
Wave theory flushing method and direct flushing pipe method to avoid block and crossed contamination.
Automatic calibration and two-point correction to adjust slope and intercept; available to print-out QC graph and QC statistical parameters.
Power failure protection to avoid data losing. Data storage could be extended to more than 50000.
Supporting fuzzy query.
Supporting LIS software; upload data format is selectable;
Supporting RTC Clock management.
Available to power off any time, therefore reduce reagent consumption, suitable for any hospitals.

Working environment

Temperature : 5 40°C
Relative humidity : ≤ 80%
Atmospheric pressure : 80 ~ 106 kPa
Power supply : AC220V ± 22V, 50Hz ± 1Hz
Power : ≤ 120W
Dimension : 340mm x 200 x 380 mm
Net weight : 6 kg

Optional items

Auto loader Sampler

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