PocTell®

Smart Healthcare Technologies

Electrolyte Analyzer

Maintenance free analyzer
Room temperature stored cartridge

including iMg^{2+}

K^+

Na^+

Cl^-

iCa^{2+}

Distribuido por:

LR diagnóstico

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Ordering Information

Model No.	Brand	Pkg/Size	Size (cm)	Weight	Warranty
P1	PocTell®	1unit/Box	37*34*38 (2units)	<3kgs	5 years

The PocTell® Portable Electrolyte Analyzer is a device designed for medical personnel to quickly analyze the electrolytes in venous whole blood samples. The K+, Na+, Cl-, iCa2+, and iMg2+ in blood can be measured using the disposable test cartridge, which will help medical personnel to quickly and accurately develop the patient's treatment regimen. The analyzer can be operated by trained laboratory physicians, clinicians and nurses to analyze blood samples.
The analyzer can be used in central laboratory, outpatient/emergency laboratory and clinical departments of medical institutions and other medical service centers (such as community clinics), physical examination centers, as well as scientific research laboratories

Specifications

Environmental specifications

Analyzer	Usage	Temperature	10°C-30°C
		Relative humidity	10%-85% (without condensation)
		Atmosphere pressure	86 kPa-106.6 kPa
	Transport and storage	Temperature	-20°C-55°C
		Relative humidity	10%-93% (without condensation)
		Atmosphere pressure	86 kPa-106.6 kPa

Mechanics

Dimensions	240 mm x 120 mm x 110 mm, permissible deviation ±10 mm
Weight	1.5±0.2 kg (including battery)
Display screen	7-inch color touch screen
Power switch	Press once to power on and long press to power off
Power supply	Lithium battery (16.8 V) or 19 VDC (alternating current input: about 100 V ± 10 V - 240 V ± 24 V, 50/60 Hz ± 1 Hz, input power: 90 VA)

Data interface	An USB interface
Network®	Ethernet
code scanner	Built-in
Printer	Built-in

Performance

Time required	The time from test cartridge insertion to the output of results is 5 ± 0.5 min
Data storage	99,999 pieces of data (including test and QC results); the earliest records will be overwritten if exceeding the limit

Parameter	Accuracy (deviation ≤)	Precision	Linearity			Stability
			Range (mmol/L)	Deviation	Correlation coefficient r	
K^+	±3.0%	≤1.5%	1.0-15.0	≤3.0%	≥0.995	≤2.0%
Na^+	±3.0%	≤1.5%	100-200	≤3.0%		≤2.0%
Cl^-	±3.0%	≤1.5%	65-160	≤3.0%		≤2.0%
iCa^{2+}	±5.0% or±0.05 mmol/L	≤1.5%	0.25-4	≤ 5.0% or ± 0.05 mmol/L		≤3.0%
iMg^{2+}	±5.0% or ±0.05 mmol/L	≤3%	0.2-1.5	≤ 5.0% or ± 0.05 mmol/L		≤3.0%

Printer

Printer	Built-in thermal printer, using thermal printing papers
Print span	57mm

Battery

Type	Rechargeable lithium battery
Working	Continuous standby for 24 h, and continuous testing for ≥ 50 times

Charging time	No more than 8 h
Limiting voltage for charging	16.8V
Charge mode	Constant current/voltage
Charging current (standard)	1A
Maximum continuous discharge current	1000mAh
Cycle life	≥ 300 times

Application