

Electrolyte Analyzer BKE



Semi-auto Electrolyte Analyzer
BKE-A/C/E

Auto Electrolyte Analyzer
BKE-B/D/F/L

Introduction:

BKE series electrolyte analyzer adopts advanced ion selective electrode measurement technology, which can directly measure the concentration of K⁺, Na⁺, Cl⁻, Ca²⁺, Li⁺, Mg²⁺, pH, TCO₂ and AG in serum, plasma, whole blood, cerebrospinal fluid. It is a fast, accurate, convenient and practical clinical testing instrument.

Features:

- ① The software supports automatic potential tracking correction to ensure stable performance.
- ② Automatic monitoring and filtering of tiny air bubbles to ensure measurement accuracy.
- ③ Wave flushing and pipeline flushing can avoid blockage and cross-contamination.
- ④ Power-off protection, can protect data storage, the result can be stored up to 50,000.
- ⑤ Low consumption, effectively reducing the cost of consumables.
- ⑥ 7-inch high-definition touch screen, comprehensive content display.
- ⑦ With the function of automatic fault alarm and elimination, improve work efficiency.

Parameters:

Model	BKE-A/B/C/D	BKE-E/F/L
Sample	Serum, plasma, whole blood, cerebrospinal fluid and dilute urine	
Measuring Speed	≤25s	
Analysis Method	Ion selective electrode (ISE)	
Sample Volume	60~150μl	200μl
Sample Position	30 sample positions, 5 emergency positions (Only for BKE-B/D/F/L)	
Injection Mode	Manual or automatic injection can be selected (Only for BKE-B/D/F/L), BKE-A/C/E is manually injection	
Storage	Up to 50,000 test results	
Printer	Build-in thermal printer	
Interface	RS232 port for LIS	
Display	7-inch high-definition touch screen	
Language	Chinese and English, other languages can be customized	
Calibration	Automatic and Manual calibration	
Other Function	Sample volume detection	
Power Supply	AC100~240V, 50/60Hz, 70VA	
Temperature	+10~+40°C	
Relative Humidity	≤ 80 %	
Atmospheric Pressure	86~106 kPa	

Model	BKE-A	BKE-B	BKE-C
Test Items	K ⁺ , Na ⁺ , Cl ⁻	K ⁺ , Na ⁺ , Cl ⁻	K ⁺ , Na ⁺ , Cl ⁻ , iCa ²⁺ , nCa ²⁺ , TCa ²⁺ , pH
Sample Tray	No	Yes	No
External Size(W*D*H) mm	405*214*471	682*287*471	405*214*471
Net Weight (kg)	12.48	15.11	12.48
Package Size(W*D*H) mm	Instrument: 500*390*530 Reagent:220*160*120, 220*160*120	Instrument: 500*390*720 Reagent:220*160*120, 220*160*120	Instrument: 500*390*530 Reagent:220*160*120, 220*160*120
Gross Weight (kg)	Instrument:16.08 Reagent:1.7, 0.9	Instrument:19.31 Reagent:1.7, 0.9	Instrument:16.08 Reagent:1.7, 0.9
Model	BKE-D	BKE-E	BKE-F
Test Items	K ⁺ , Na ⁺ , Cl ⁻ , iCa ²⁺ , nCa ²⁺ , TCa ²⁺ , pH	K ⁺ , Na ⁺ , Cl ⁻ , iCa ²⁺ , nCa ²⁺ , TCa ²⁺ , pH, TCO ₂ , AG	K ⁺ , Na ⁺ , Cl ⁻ , iCa ²⁺ , nCa ²⁺ , TCa ²⁺ , pH, TCO ₂ , AG
Sample Tray	Yes	No	Yes
External Size(W*D*H) mm	682*287*471	405*214*471	682*287*471
Net Weight (kg)	15.11	13.13	15.76
Package Size(W*D*H) mm	Instrument: 500*390*720 Reagent:220*160*120,220*160*120	Instrument: 500*390*530 Reagent:280*135*210,220*160*120	Instrument: 500*390*720 Reagent:280*135*210,220*160*120
Gross Weight (kg)	Instrument:19.31 Reagent: 1.7, 0.9	Instrument:16.73 Reagent:2.2,1.2	Instrument:19.96 Reagent: 2.2,1.2

Model	BKE-L	Items	Measuring Range	Resolution
Test Items	K ⁺ , Na ⁺ , Cl ⁻ , iCa ²⁺ , nCa ²⁺ , TCa ²⁺ , pH, TCO ₂ , AG, Li ⁺ , Mg ²⁺	K ⁺	0.5-20.0mmol/L	0.01mmol/L
Sample Tray	Yes	Na ⁺	15-200mmol/L	0.01mmol/L
External Size(W*D*H) mm	682*287*471	Cl ⁻	15-200mmol/L	0.01mmol/L
Net Weight (kg)	15.76	Ca ²⁺	0.1-6.0mmol/L	0.01mmol/L
Package Size(W*D*H) mm	Instrument:500*390*720 Reagent:280*135*210, 220*160*120	pH	4-9	0.01
Gross Weight (kg)	Instrument:19.96 Reagent: 2.2,1.2	TCO ₂	2.0-70.0mmol/L	0.1mmol/L
		Li ⁺	0.1-6.0mmol/L	0.01mmol/ L
		Mg ²⁺	0.1-4.0mmol/L	0.01mmol/ L

Reagent for Electrolyte Analyzer (ISE)



Features:

- ① High quality raw materials.
- ② Stable performance.
- ③ Long shelf life.
- ④ Multiple specifications optional.

Parameters:

Product Name	Reagent for Electrolyte Analyzer (ISE)
Component	Drift correction solution A (350ml); Slope correction solution B (350ml) Reference solution (10ml*2); Filling solution in electrode (3ml); Cleaning Fluid E (100ml) Electrode Activation Fluid (100ml); Internal correction solution (100ml) Electrode cleaning Fluid (protease): Protease:25mg*5; Diluent :5mL*1 Drift correction solution (CO ₂ standard 1):100ml*1 (only for BKE-E/F/L) Slope correction solution(CO ₂ standard 2):100ml*1 (only for BKE-E/F/L) CO ₂ Acidic Washing:100ml*1 (only for BKE-E/F/L)
Precision	TCO ₂ , Mg ²⁺ repeatability CV≤3.5%; Batch variations R≤5%; iCa ²⁺ , Li ⁺ repeatability CV≤1.5%; Batch variations R≤3%; Others repeatability CV≤1.5%; Batch variations R≤2%
Accuracy	K ⁺ , Na ⁺ , Cl ⁻ , pH relative deviation≤±3.0%; iCa ²⁺ , Li ⁺ , Mg ²⁺ relative deviation≤±5%, or≤±0.05mmol/L; TCO ₂ relative deviation≤±5%
Linearity	r≥0.995
Package Size (L*W*H) mm	Commodity inspection reagent: 220*160*120(only for BKE-A/B/C/D), 280*135*210(only for BKE-E/F/L) Non-commodity inspection reagent: 220*160*120
Gross Weight (kg)	Commodity inspection reagent: 1.7 (only for BKE-A/B/C/D), 2.2(only for BKE-E/F/L) Non-commodity inspection reagent: 0.9(only for BKE-A/B/C/D), 1.2(only for BKE-E/F/L)