

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 deviations±5%, or≤±0.05mmol/L; TCO ₂ relative deviations±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)