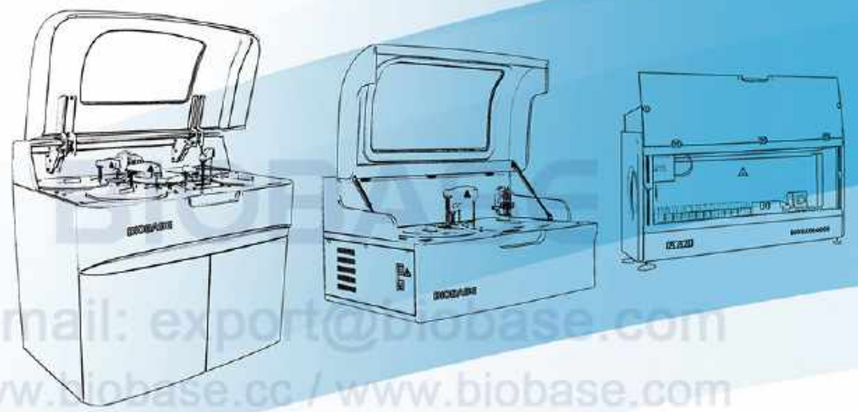
BIOBASE®

Clinical & Analytical



BIOBASE GROUP

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BIOBASE CHINA

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Version 2024-1

Introduction

BIOBASE Group is a professional manufacturer of laboratory and medical products since 1999. Our main products in Medical are Auto chemistry analyzer, IVD Reagents, Auto ELISA processor, ELISA Microplate reader & washer, Hematology analyzer, Electrolyte analyzer, Urine analyzer, etc. In Laboratory mainly are Biological safety cabinet, Fume hood, Laminar flow cabinet, etc.

The wide experience on the research and manufacturing Lab and Medical products has managed BIOBASE to be able to offer a large range of competitive products with the highest quality.

Our advantages:

Excellent R&D team of more than 450 researchers.

Experienced after-sales service engineers more than 100 persons.

24 years production experience and national standard factory workshop.

Strong QC team to inspect all production stage, from the accessories to the finished products.

ISO9001, ISO13485, CE certificate.

ISO9001

ISO13485

CE

FDA

Contents

Automatic Chemistry Analyzer

01

Reaction Module

Long lifetime halogen lamp, stable light source.
340, 405, 450, 480, 505, 546, 570, 600, 630, 700, 750, 800nm twelve wavelength filters.
37°C stable incubation system.

02

Functional Software

Sample information batch and combination input quickly and easily.
24 hours working, with STAT function.
Special designed software surface for engineer to monitor whole instrument status clearly.
LIS system available.

03

Accurate Sample & Reagent Adding System

Accurate sampling pump, sample adding 0.1μl stepping, reagent adding 1μl stepping.
Sample & reagent probes with liquid level sensor and anti-collision functions.

04

Sample and Reagent Tray

Reagent tray with 24 hours cooling system.
Reagent volume real-time detection, with remaining volume display online.

200T/H Automatic Chemistry Analyzer
BK-200 (Previous BK-200mini)

Overall Appearance:

One probe for reagents and samples;
One mixer; Washing probe.

Features:

①. 37 Sample positions.
②. 28 Reagent positions.
③. 48 Reaction cuvettes.
④. 200 Tests per hour.
⑤. Probe with anti-collision function, liquid level dectection function.

Reaction Tray
37±0.2°C,
real-time monitor.

Reagent Tray
Refrigerated tray with independent switch.

Sample&Reagent Probe
Liquid level sensor function.
Anti-collision function.
Reagent volume real-time detection.

Mixer Probe
Teflon coating to avoid cross contamination.

Washing Probe
Independent 3 -step washing system.

Independent Power Switch

Parameters:

Model		BK-200
Overall Performance	Throughput	200 Tests/hour
	Analysis Method	End-point, Fixed-time, Rate(Kinetic), Turbidimetry
	Certificates	CE, FDA, ISO9001, ISO13485
Sample & Reagent System	Sample Positions	37 sample positions
	Reagent Positions	28 reagent positions
	Sample Volume	2~70μl
	Reagent Volume	20~350μl
	Probe	Teflon coating, with anti-collision function, liquid level detection function
	Probe Washing	Automatic washing interior and exterior
	Reagent Cooling	Refrigerated tray with independent switch
Reaction System	Temperature Control	37±0.2°C
	Cuvettes	48 reusable cuvettes, optical length 6mm
	Mixer Probe	Independent stirring
	Washing	Automatic cuvettes washing
	STAT Function	YES
Optical System	Light Source	6V/10W halogen lamp
	Spectrophotometry	Post-spectral spectrophotometry
	Wavelength	340, 405, 450, 510, 546, 578, 630, 700nm
	Absorbance	0~3.0Abs
Calibration & QC	Calibration	Linear: K factor, 1-point, 2-point and multipoint linear Non-Linear: Spline, Polygon, Logit-4P, Logit-5P
	Quality Control	Real-time QC, Westgard multi rule, Cumulative sum check, Twin Plot(2D), Daily QC, Monthly QC
Data Management	Software	Windows 7/8/10, 32 or 64 bit
	LIS System	Bi-direction, support HL7 protocol
	Interface	LAN port access
	Printer	External optional, multiple reporting mode available
Working Conditions	Power Supply	AC220V±10%, 50/60Hz, 110V±10%, 60Hz, 300W
	Temperature	15~30°C
	Water Consumption	Deionized water: ＜5L/H
	Humidity	40%~85%
Size & Weight	External Size (W*D*H)	625*425*460mm
	Net Weight	36kg
	Package Size (W*D*H)	750*560*900mm
	Gross Weight	55kg

200T/H Automatic Chemistry Analyzer
BK-280 (Previous BK-200)

Features:

①. 49 Sample positions.

②. 56 Reagent positions.

③. 120 Reaction cuvettes.

④. 200 tests per hour.

⑤. Probe with anti-collision function, liquid level dectection function.

Reaction Tray
37±0.2°C,
real-time monitor.

Mixer Probe
Teflon coating to avoid cross contamination.

Reagent Tray
2~8°C cooling for 24 hours.

Sample Probe
Liquid level sensor function.
Anti-collision function.Reagent volume real-time detection.

Software
User-friendly software.

Washing Probe
Independent 5-step washing system.

Parameters:

Model		BK-280
Overall Performance	Throughput	200 Tests/hour
	Analysis Method	End-point, Fixed-time, Rate(Kinetic), Turbidimetry
	Certificates	CE, FDA, ISO9001, ISO13485
Sample & Reagent System	Sample Positions	49 sample positions
	Reagent Positions	56 reagent positions
	Sample Volume	2~70μl
	Reagent Volume	20~350μl
	Probe	Teflon coating, with anti-collision function, liquid level detection function
	Probe Washing	Automatic washing interior and exterior
	Reagent Cooling	Refrigerated tray with independent switch
Reaction System	Temperature Control	37±0.2°C
	Cuvettes	120 reusable cuvettes, optical length 6mm
	Mixer Probe	Independent stirring
	Washing	Automatic cuvettes washing
	STAT Function	YES
Optical System	Light Source	12V/20W halogen lamp
	Spectrophotometry	Post-spectral spectrophotometry
	Wavelength	340, 405, 450, 480, 505, 546, 570, 600, 630, 700, 750, 800nm
	Absorbance	0~3.0Abs
Calibration & QC	Calibration	Linear: K factor, 1-point, 2-point and multipoint linear Non-Linear: Spline, Polygon, Logit-4P, Logit-5P
	Quality Control	Real-time QC, Westgard multi rule, Cumulative sum check, Twin Plot(2D), Daily QC, Monthly QC
Data Management	Software	Windows 7/8/10, 32 or 64 bit
	LIS System	Bi-direction, support HL7 protocol
	Interface	LAN port access
	Printer	External optional, multiple reporting mode available
Working Conditions	Power Supply	AC220V±10% 50/60Hz, 110V±10% 60Hz, 300W
	Temperature	15~30°C
	Water Consumption	Deionized water: 5L/H
	Humidity	40%~85%
Size & Weight	External Size (W*D*H)	950*600*515mm
	Net Weight	75kg
	Package Size (W*D*H)	1130*735*1040mm
	Gross Weight	135kg

400T/H Automatic Chemistry Analyzer
BK-400

Features:

①. 400 Tests per hour.

②. 90 Reagent positions.

③. 120 Reaction cuvettes.

④. Built-in sample barcode system optional.

⑤. 60 Sample positions (90 sample positions optional).

⑥. Probe with anti-collision function,
liquid level dectection function.

Reaction Tray
37±0.1℃, real-time monitor.

Mixer Probe
Teflon coating to avoid cross contamination.

Reagent Tray
2~8°C cooling for 24 hours.

Sample Probe
Liquid level sensor function.
Anti-collision function.
Sample volume real-time detection.

Software
User-friendly software.

Washing Probe
Independent 7-step washing system.

Parameters:

Model		BK-400
Overall Performance	Throughput	400 Tests/hour
	Analysis Method	End-point, Fixed-time, Rate(Kinetic), Turbidimetry
	Certificates	CE, FDA, ISO9001, ISO13485
Sample & Reagent System	Sample Positions	60 or 90 sample positions, built-in barcode system available
	Reagent Positions	90 refrigerated reagent positions
	Sample Volume	1~70μl
	Reagent Volume	10~350μl
	Probe	Teflon coating, with anti-collision function, liquid level detection function
	Probe Washing	Automatic washing interior and exterior
	Reagent Cooling	2~8°C
Reaction System	Temperature Control	37±0.1°C, real-time monitoring
	Cuvettes	120 reusable cuvettes, optical length 6mm
	Mixer Probe	Independent stirring
	Washing	Automatic cuvettes washing
	STAT Function	YES
Optical System	Light Source	12V/20W halogen-tungsten lamp
	Spectrophotometry	Post-spectral spectrophotometry
	Wavelength	340, 405, 450, 480, 505, 546, 570, 600, 630, 700, 750, 800nm
	Absorbance	0~3.5Abs
Calibration & QC	Calibration	Linear: K factor, 1-point, 2-point and multipoint linear Non-Linear: Spline, Polygon, Logit-4P, Logit-5P
	Quality Control	Real-time QC, Westgard multi rule, Cumulative Sum Check, Twin Plot(2D), Daily QC, Monthly QC
Data Management	Software	Windows 7/8/10, 32 or 64 bit
	LIS System	Bi-direction, support HL7 protocol
	Interface	TCP/IP Network interface
	Printer	External optional, multiple reporting mode available
Working Conditions	Power Supply	220V±10% 50/60Hz, 110V±10% 60Hz, 500VA
	Temperature	15~30°C
	Water Consumption	Deionized water:<12 L/h
	Humidity	40%~85%
Size & Weight	External Size (W*D*H)	1170*775*1145mm
	Net Weight	190kg
	Package Size (W*D*H)	1358*935*1387mm
	Gross Weight	255kg

600T/H Automatic Chemistry Analyzer
BK-600

Features:

①. 600 Tests per hour.

②. 120 Reaction cuvettes.

③. 180 Refrigerated reagent positions.

⑤. Built-in sample barcode system optional.

⑥. 90 Sample positions.(120 sample positions optional).

⑦. Probe with anti-collision function, liquid level dectection function.

Reaction Tray
37±0.1℃, real-time monitor.

Mixer Probe
Teflon coating to avoid cross contamination.

Reagent Tray
2~8°C cooling for 24 hours.

Sample Probe
Liquid level sensor function.
Anti-collision function.
Sample volume real-time detection.

Software
User-friendly software.

Washing Probe
Independent 7-step washing system.

Parameters:

Model		BK-600
Overall Performance	Throughput	600 Tests/hour
	Analysis Method	End-point, Fixed-time, Rate(Kinetic), Turbidimetry
	Certificates	CE, FDA, ISO9001, ISO13485
Sample & Reagent System	Sample Positions	90 sample positions, built-in barcode system available
	Reagent Positions	180 refrigerated reagent positions (R1: 90 & R2: 90)
	Sample Volume	1~70μl
	Reagent Volume	10~350μl
	Probe	Teflon coating, with anti-collision function, liquid level detection function
	Probe Washing	Automatic washing interior and exterior
	Reagent Cooling	2~8°C
Reaction System	Temperature Control	37±0.1°C, real-time monitoring
	Cuvettes	120 reusable cuvettes, optical length 6mm
	Mixer Probe	Independent stirring
	Washing	Automatic cuvettes washing
	STAT Function	YES
Optical System	Light Source	12V/20W halogen lamp
	Spectrophotometry	Post-spectral spectrophotometry
	Wavelength	340, 405, 450, 480, 505, 546, 570, 600, 630, 700, 750, 800nm
	Absorbance	0~3.5Abs
Calibration & QC	Calibration	1-point, 2-point and multi-point, factor, Spline, Logit-4P, Logit-5P, Polygon
	Quality Control	Inserting quality control at random
Data Management	Software	Windows 7/8/10
	LIS System	Available
	Interface	TCP/IP Network interface
	Printer	External optional, multiple reporting mode available
Working Conditions	Power Supply	220V±10% 50/60Hz, 110V±10% 60Hz, 800VA
	Temperature	15~30°C
	Water Consumption	Deionized water: 20L/h
	Humidity	40%~85%
Size & Weight	External Size (W*D*H)	1170*775*1145mm
	Net Weight	216kg
	Package Size (W*D*H)	1358*938*1387mm
	Gross Weight	281kg
	Accessory Package Size	550*430*860mm
	Accessory Gross Weight	20kg

800T/H Automatic Chemistry Analyzer
BK-1200

Features:

①. 150 Sample positions.

②. 160 Reaction cuvettes.

③. 180 Refrigerated reagent positions.

④. Optical filter/fiber bragg grating selectable.

⑤. 800 Tests per hour (1200 Tests with ISE module).

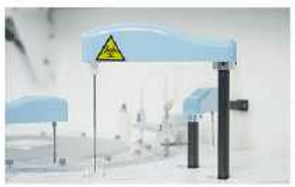
⑥. Built-in sample barcode system optional.

⑦. Probe with anti-collision function, liquid level dectection function.

Reaction Tray
37±0.1°C, water bath

Mixer Probe
Dual mixer, auto frequency adjustment

Reagent Tray
2~8°C cooling for 24 hours.



Sample Probe
Liquid level sensor function.
Anti-collision function.
Sample volume real-time detection.

Software
User-friendly software.

Washing Probe
Dual design, high efficiency.

Parameters:

Model		BK-1200
Overall Performance	Throughput	800 Tests/hour, 1200Tests/hour with ISE(Optional)
	Analysis Method	End-point, Fixed-time, Rate(Kinetic), Turbidimetry
	Certificates	CE, FDA, ISO9001, ISO13485
Sample & Reagent System	Sample Positions	150 sample positions
	Reagent Positions	180 reagent positions
	Sample Volume	1~70μl
	Reagent Volume	10~350μl
	Probe	Teflon coating, with anti-collision function, liquid level detection function
	Probe Washing	Automatic washing interior and exterior
	Reagent Cooling	Refrigerated tray with independent switch
Reaction System	Temperature Control	Water bath, 37±0.1°C, real-time monitoring
	Cuvettes	160 reusable cuvettes, optical length 6mm
	Mixer Probe	Independent stirring
	Washing	Automatic cuvettes washing
	STAT Function	YES
Optical System	Light Source	12V/20W halogen lamp/fiber bragg grating optional
	Spectrophotometry	Post-spectral spectrophotometry
	Wavelength	12 wavelengths from 340~800nm
	Absorbance	0~3.5Abs
Calibration & QC	Calibration	Linear: K factor, 1-point, 2-point and multipoint linear Non-Linear: Spline, Polygon, Logit-4P, Logit-5P
	Quality Control	Real-time QC, Westgard multi rule, Cumulative Sum Check, Twin Plot(2D), Daily QC, Monthly QC
Data Management	Software	Windows 7/8/10, 32 or 64 bit
	LIS System	Bi-direction, support HL7 protocol
	Interface	LAN port access
	Printer	External optional, multiple reporting mode available
Working Conditions	Power Supply	AC220V±10% 50/60Hz, 110V±10% 60Hz, 1500W
	Temperature	15~30°C（±2°C）
	Water Consumption	Deionized water: <25L/H
	Humidity	40%~85%
Size & Weight	External Size (W*D*H)	1360*795*1155mm
	Net Weight	290kg
	Package Size (W*D*H)	1729*969*1435mm
	Gross Weight	400kg

Semi-auto Chemistry Analyzer
BIOBASE-Silver

Features:

①. Easy operation by one button.

②. End point, kinetic, fixed time, rate, etc.

③. Filter wavelength: 340/405/450/510/546/578/630nm, 2 more open filter positions, others on request.

④. With 20 incubating positions.

⑤. Large Memory to store 144 test programs and 5600 testing results.

⑥. Excellent Q.C function, Q.C chart can be stored, displayed and printed.

⑦. 37℃ temperature in flow cell and incubating.

⑧. Real time graph can be displayed and printed.

Parameters:

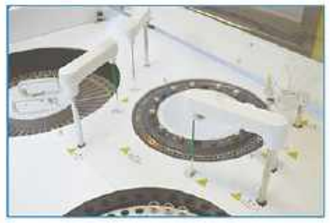
Model	BIOBASE-Silver
Reading cuvette	Quartz cuvette; Both through cell and direct reading cuvette
Incubating positions	20 incubating positions
Photometric System	Light source: 6V, 10W long life halogen lamp
	Filters: 340/405/450/510/546/578/630nm, 2 more open filter positions
	Wavelength accuracy: ±2nm
Measuring System	Measuring range: 0~3.500O.D.
	Photometric linearity: ±2% from 0 to 2.500 O.D.
	Photometric accuracy: ±2% from 0 to 2.500 O.D.
	Drift<0.005 O.D.
Incubator Temperature	R.T. 25℃, 30℃, 37℃
Control	Precision: ±0.1℃
Display	Touch Screen
Printer	Built-in thermal printer
Interface	RS-232, USB
Power Supply	AC110/220V±10%, 60/50Hz
External Size(W*D*H)	400*380*200mm
Packing Size(W*D*H)	500*530*350mm
Gross Weight	12kg

Clinical Chemistry Reagents

118 Item Reagent Kits:

Class 100000 Clean Workshop

Chemistry Reagent



Used in BIOBASE or other brands Chemistry analyzer

①. Pancreas: α-AMY, LPS.

②. Pepsinogen: PG I, PG II.

③. Rheumatism: RF.

④. Hemagglutination: Fb, Fn.

⑤. Glycometabolism: GLU, GSP, HbA1c, D3H, LAC.

⑥. Blood Gas Electrolyte: Cl, Ca, P, Mg, CO2, Na, K, Cu, Fe, Zn, etc.

⑦. Blood Lipid: CHO, TG, HDL-C, LDL-C, APOA1, APOB, HCY, PLIP, Lp(a), APOE, ApoA2, ApoC2.

⑧. Myocardium Zymogram: LDH, CK-NAC, CK-MB, MB, ACE, LDH I, TnI, MA.

⑨. Kidney Function: UREA, CREA, UA, MALB, CYS-C, BMG, NAG, UTP, α1-MG, RBP.

⑩. Special Protein: ASO, CRP, PALB, TRF, G6PD, DD, C3, C4, IgA, IgM, IgG, HS-CRP, UIBC, Fet, IgE.

⑪. Liver Function: ALP, γ-GT, ALT, AST, TP, ALB, TBIL, DBIL, CHE, TBA, AFU, 5'-NT, AMO, AFP, AMM, LAP, ALC, GLDH, AAT.

Small package	24ml~40ml
Medium package	96ml~160ml
Big package	480ml~560ml

Applicable to different brand chemistry analyzer

BIOBASE, Hitachi, Olympus, Roche, Beckman, Toshiba, Shimadzu, Abbott, Sysmex, Mindray, etc.

OEM Services Available:

Bulk package: 500ML, 1L, 2L, 5L, 10L, 25L, 50L, 100L

Applicable Models

BIOBASE

Hitachi 7020

Hitachi 7170

Hitachi 7060

Olympus

Mindray

Beckman

Glamour

Neusoft

Toshiba

Abbott

Roche

Automatic Chemiluminescence Immunoassay System BKI1100

Introduction:

The chemiluminescence immunoassay system uses magnetic particle separation technology, which uses magnetic particles as antibody carriers, which can be evenly distributed in the liquid phase reaction system, with faster reaction speed and higher efficiency. Using enzymatic chemiluminescence method, the light signal is more stable. A new generation of enzymatic substrates, with higher sensitivity and faster luminescence.

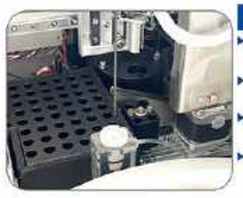
Instrument Performance:

Excellent performance
- Tubular enzymatic chemiluminescence;
- The max speed of a single machine is 180T/h;
- Carrying contamination rate< 10ppm;
- High precision: intra-batch precision ≤ 5%.

Compact and convenient
- 0.68 square meters, highly integrated and simplified patented design;
- Support LIS bidirectional communication, built-in sample bar code scanning.

Original system design
- Intelligent software: automatic intelligent control technology can achieve hierarchical alarm;
- Convenient operation: wizard visual interface, one key daily maintenance operation.

Technical Advantages:



Sample Probe
- Sample integrity control: level, clot and bubble detection;
- Needle tip cone-angle design to reduce liquid hanging;
- Quantity tracking, intelligent collision avoidance;
- Negative pressure washing, cleaning more thoroughly.

RV Loading Module

Reaction vessels can be added by pouring, without manual arrangement.

Washing and mixing module
- Incubation, cleaning and testing one-machine design;
- Fully enclosed independent incubation system with 58 incubation positions;
- 12 independent cleaning positions;
- Triple magnetic separation cleaning technology is adopted;
- Original photon counting dark chamber.

Reagent Tray
- Forced air cooling, maintenance-free;
- Up to 25 items can be tested at the same time, can be replaced at any time;
- Remaining liquid detection, real-time alarm;
- Support scanning bar code loading.

Sample Tray
- 60 sample positions;
- Support emergency insertion;
- Support blood collection tube, sample vessel loading.

Operating System
- Humanized design software function;
- Clear warning of consumables status, adding in advance is more worry-free;
- The detection process is updated in real time, easy to grasp the reporting time;
- Fault warning, remote assistance, and active maintenance are more intimate.

Technical Parameter:

Model	BKI1100
Throughput	180T/H
Principle	Magnetic particle enzymatic chemiluminescence
Modes of Operation	Random, Batch and STAT
Separation Method	Magnetic separation technology
Sample Positions	60 (Each position could be used as an emergency position)
Reagent Positions	25 pcs (2-8℃ refrigeration)
Incubation Positions	58
Time to 1st Result	18 Minutes
Sample Volume	10-200ul
Detection Precision	CV≤5%
Carry-over Rate	$\leq 10^{-5}$
Correlation Coefficient	r≥0.99
Calibration Stability	28 Days
Calibration Type	6/7-point calibration
Software System	Windows 7/8/10, 32 or 64 bit; Bi-direction, support HL7 protocol; Intuitive User Interface, Intelligent Data Management
Interface	TCP/IP Network interface
Other Function	Liquid level detection; Anti-collision function; Sample barcode scanning; Intelligent alarm prompt
Power Supply	AC220V 50/60Hz (Standard); AC110V 60Hz (Optional)
External Size (W*D*H)	768*771*568
Net Weight	94 kg
Package Size (W*D*H)	1303*873*854mm
Gross Weight	163kg

Automatic Chemiluminescence Immunoassay System BKI2200

Introduction:

The chemiluminescence immunoassay system uses magnetic particle separation technology, which uses magnetic particles as antibody carriers, which can be evenly distributed in the liquid phase reaction system, with faster reaction speed and higher efficiency. Using enzymatic chemiluminescence method, the light signal is more stable. A new generation of enzymatic substrates, with higher sensitivity and faster luminescence.

01 Operation Module
Fast speed
High precision

02 Control module
Ergonomic design
Simplified patented design

03 Reagent Module
Perfect project list
Extensive reagent menu

Optional base cabinet

Advantage:

Operation Module
Tubular enzymatic chemiluminescence
The max speed of a single machine is 240T/h
Carrying contamination rate< 10ppm
High precision: intra-batch precision ≤ 8%

Control Module
Ergonomic design increased operator comfort
0.68 square meters, highly integrated and simplified patented design
Convenient operation: support LIS two-way communication, scan the code to test
Smooth human-computer interaction experience: the touch screen and the frame are integrated into the machine, and all consumables can be loaded online in real time

System Layout:

Sample Probe
Sample integrity control: level, clot and bubble detection
Needle tip cone-angle design to reduce liquid hanging
Quantity tracking, intelligent collision avoidance
Negative pressure needle washing, cleaning more thoroughly

RV Loading Module
Reaction vessels can added by pouring, without manual arrangement

Washing and mixing module
Incubation, cleaning and testing one-machine design
Fully enclosed independent incubation system with 90 incubation positions
30 independent cleaning positions
Triple magnetic separation cleaning technology is adopted

Sample Tray
International universal test tube rack, 10 tubes/rack, 6 test tube racks can be placed
Support emergency insertion
Support blood collection tube, sample vessel loading

Reagent Tray
Forced air cooling,maintenance-free
Up to 25 items can be tested at the same time,can be replaced at any time
Remaining liquid detection, real-time alarm
Support scanning bar code loading

Operating System
Humanized design software function
Clear warning of consumables status, adding in advance is more worry-free
The detection process is updated in real time, easy to grasp the reporting time
Fault warning, remote assistance, and active maintenance are more intimate

Instrument Software Module:

Humanized software functions
Reagent loading and sample operation are convenient and intuitive
Intuitive display of sample status in testing
Support checking experiment results by sample or project

Reagents and consumables status warning
Accurately record the use of reagents for each project
Accurately record the remaining amount of consumables
Timely alarm when the remaining consumables is insufficient

Simple and intuitive quality control process
Convenient addition of quality control experiments
Intuitive display of quality control results
Support various forms of T-P chart and L-J chart

Convenient and flexible maintenance functions
The maintenance program is comprehensive
Individual maintenance work can be flexibly chosen
Daily, monthly and yearly maintenance work is clearly distinguished

Technical Parameter:

Model	BKI2200
Throughput	240T/H
Principle	Magnetic particle enzymatic chemiluminescence
Modes of Operation	Random, Batch and STAT
Separation method	Magnetic separation technology
Sample Positions	60 (Each position could be used as an emergency position)
Reagent Positions	25 pcs (2-8℃ refrigeration)
Incubation Positions	90
Time to 1st Result	18 Minutes
Sample Volume	10-200ul
Detection Precision	CV≤8%
Carry-over Rate	≤10-5
Correlation Coefficient	r≥0.99
Calibration Stability	28 Days
Calibration Type	6/7-point calibration
Software system	Windows 7/8/10, 32 or 64 bit
	Bi-direction, support HL7 protocol
	Intuitive User Interface, Intelligent Data Management
Interface	TCP/IP Network interface
Other Function	Liquid level detection
	Anti-collision function
	Sample barcode scanning
	Intelligent alarm prompt
Power Supply	AC220V, 50Hz
External Size (W*D*H)	1000*685*750
Net Weight	133
Package Size (W*D*H)	1338*838*954mm
Gross Weight	201

Reagent Product Menu:

*means upcoming item

Thyroid	TSH
	TT4
	TT3
	FT4
	FT3
	TgAb
	TPOAb
	TG
	Anti-TSHR
	CT
Fertility	β-HCG
	E2
	P
	T
	PRL
	FSH
	LH
	DHEA-S
	SHBG
	AMH*
Hypertension	ALD
	ACTH
	Cortisol
	Renin
	A II *
Tumor marker	CA125
	CA15-3
	CA19-9
	AFP
	CEA
	t-PSA
	f-PSA
	CA72-4
	SCC
	CA242
	CA50
	NSE
	CYFRA21-1
	HE4
	ProGRP
Cardiac marker	cTnI
	NT-proBNP
	CK-MB
	MYO

Rheumatoid	Anti-ccp
	B2-MG
Liver fibrosis	CIV
	HA
	P III NP
	LN
Anemia	FA
	VB12
	FERRITIN
Growth	GH
	IGF- I *
Glycometabolism	INS
	C-P
Pepsinogen	PG I
	PG II
Inflammation	PCT
	IL-6
	FE3
Early screening	Free β-HCG
	PAPP-A
Bone Metabolism	BGP
	25-OH-Vit-D
	iPTH
	PINP*
Infectious	HBeAb*
	HBeAg*
	HBcAb*
	HBsAb*
	HBsAg*
	Anti-HBc IgM*
	HIV Ag/Ab*
	Anti-TP*
	Anti-HCV*

Auto ELISA Processor

01

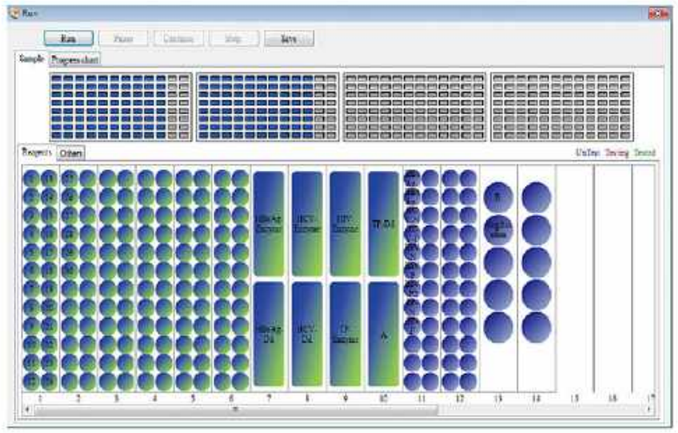
Sample Module

With hydrophobic membrane treatment precision probe and automatic washing system, ensure adding volume accurately and preventing cross contamination effectively.

02

Sample & Reagent & Dilution Rack Module

Using original sample tube and reagent bottles directly, preventing cross contamination effectively.
Onboard large capacity and optional programmable dilution module.



03

Software Module

User-friendly Windows system, easy and simple to operate.
LIS (Laboratory information system) is available.

04

Microplate Reader & Washer Module

Washing probe is adjusted automatically to ensure washing efficiently without residual, having unique integrative washing and reading module system. Reading unit is composed of high precision optics to ensure the accuracy and stability of testing results.

05 Testing Range:

①. TORCH SERIES	Toxo, RV, CMV, HSV etc.
②. HEPATITIS SERIES	HAV, HBV, HCV, HDV, HEV etc.
③. VENEREAL SERIES	HIV, TP, MP, CT etc.
④. THYROID AUTOIMMUNITY SERIES	T3, T4, FT3, TSH etc.
⑤. ENDOCRINE SERIES	E2, E3, LH, FSH, HCG, Pro, PRL etc.
⑥. TUMOR MARKER SERIES	CEA, AFP, PSA, F-PSA, CAL9-9, CAL 25, CA15-3, CA242.

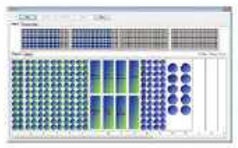
Auto ELISA Processor
BIOBASE 1000

Features:

①. 1 robotic arm, 1 pipetting probe (10~1000μl).

②. 2 unit 96 well microplates (independent incubating).

③. 1 unit reader& washer (auto reading and washing).



Software Module

User-friendly Windows system;
LIS system available.

Sample Module

Hitech teflon coating probe to prevent cross contamination.

Sample & Reagent & Dilution Rack Module

Original sample tubes available;
Rack positions programmable.

Microplate Reader & Washer Module

Modularized automatic control reading and washing system.

Parameters:

Model		BIOBASE 1000
Sample Unit	Sample Racks	Standard 192 sample position (expandable, up to 384)
	Pipetting	10~1000μl
	Dispensing System	1 aspirating and dispensing probe (X-Y-Z movement)
Reagent Unit	Reagent Racks	Universal reagent position : standard 6 universal reagent positions (expandable, up to 32);Original reagent bottle: Standard 20 reagent bottles position (expandable, up to 80)
	Pipetting Range	10~1000μl, 1μl stepping
	Pipetting Precision	(100μl) CV≤0.5%
	Dispensing Time	5 minutes to whole 96 well microplates
Incubation Unit	Incubation	2 independent Incubators
	Temperature Range	RT to 45 °C
	Temperature Accuracy	±0.5°C
Washing Unit	Washing Probes	Two line 8-nozzle manifolds
	Wash Containers	2 wash buffers 2L, 1 distilled water, 1 waste water
	Washing Residual	≤2μl
Reading Unit	Reading Channels	8 independent photometric channels, mono and dichromatic reading
	Absorbance	0.0~3.0 OD
	Spectral Range	400~700nm
	Optical Filters	2 standard filters (450,630nm); 2 more on request (405nm/450nm/492nm/630nm)
Data Management	Software	Windows 7
	LIS System	Bi-direction, support HL7 protocol
	Results	Absorbance and results reviewable by software
	Printer	External optional
Working Conditions	Power Supply	AC220V±10% 50/60Hz; 110V±10% 60H, 400W
	Temperature	10~30°C
	Humidity	30%~80%
Size & Weight	External Size (W*D*H)	933*685*860mm
	Net Weight	130kg
	Package Size(W*D*H)	1085*840*1318mm
	Gross Weight	180kg

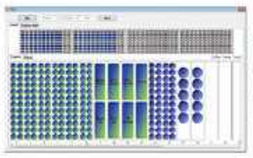
Auto ELISA Processor
BIOBASE 2000

Features:

①. 1 robotic arm, 2 pipetting probes (10~1000μl).

②. 4 unit 96 well microplates (independent incubating).

③. 1 unit reader& washer (auto reading and washing).



Software Module

User-friendly Windows system;
LIS system available.

Sample Module

Hitech teflon coating probe to prevent cross contamination.

Sample & Reagent & Dilution Rack Module

Original sample tubes available;
Rack positions programmable.

Microplate Reader&Washer Module

Modularized automatic control reading and washing system.

Parameters:

Model		BIOBASE 2000
Sample Unit	Sample Racks	552 sample positions (tubes 13mm)
	Pipetting	8~1000μl
	Dispensing System	2 aspirating and dispensing probe (X-Y-Z movement)
Reagent Unit	Reagent Position	23 reagent racks, editable
	Pipetting Range	8~1000μl, 1μl stepping
	Pipetting Precision	(100μl)CV≤0.5%
Washing Unit	Dispensing Time	4 minutes to whole 96 well microplates
	Washing Probes	Two line 8-nozzle manifolds
	Wash Containers	Cleaning fluid (15L), waste water (25L), Buffer 1 (5L), Buffer 2 (2L), Buffer 3 (2L), Buffer 4 (2L), with liquid level-sensing, liquid shortage and full alarm
	Waste Containers	25L with waste full sensor
	Washing Residual	< 2μl
Reading Unit	Reading Channels	8 independent photometric channels, mono and dichromatic reading
	Absorbance	0.0~3.0 OD
	Spectral Range	400~700nm
	Optical Filters	2 standard filters (450,630nm); 2 more on request (405nm/450nm/492nm/630nm)
	Reading Accuracy	±1% from 0~1.5OD, ±2% from 1.5~3.0 OD
Incubation Unit	Incubators	4 independent units
	Temperature Range	RT to 45°C
	Temperature Accuracy	±0.5°C
Data Management	Software System	Windows 7
	LIS System	Bi-direction, support HL7 protocol
	Results	Absorbance and results reviewable by software
	Printer	External optional
Working Conditions	Power Supply	AC220V±10% 50/60Hz; 110V±10% 60Hz, 400W
	Temperature	10~30°C
	Humidity	30%~80%
Size & Weight	External Size(W*D*H)	1235*710*880mm
	Net Weight	146kg
	Package Size(W*D*H)	1380*860*1435mm
	Gross Weight	220kg

Auto ELISA Processor BIOBASE2001

Introduction:

Auto ELISA Processor BIOBASE2001 is a fully automatic detection equipment that integrates sample addition, incubation, shaking, washing, and reading. It is widely used in hospital laboratories, disease prevention and control centers, blood centers, and blood banks, animal and plant inspection and quarantine institutions, scientific research institutions, university laboratories and other places.

Features:

①. Adopt the principle of pressure type liquid detection
②. With TIP detection, clot detection function.
③. High-precision pipetting
④. Position sensing, real-time monitoring of gripper status.
⑤. Multi-spacing and multi-strength adjustable grippers can be adapted to grasp and place microplates and plate covers of different sizes.
⑥. Dual thread control, can run simultaneously with the sampling arm without interfering with each other.

Sampling Module

Disposable TIP design, high precision, zero carry-over pollution
2 injection channels are independently controlled, and each channel runs independently in Y-Z direction
With liquid level detection, TIP head detection, clot detection and other detection and alarm functions

Smart Gripper Module

Safe, reliable, stable, efficient, fast and accurate gripper
With position sensing system
Real-time monitoring of the grabbing process to prevent falling

Shaking Incubation Module

8 independent temperature-controlled shaking incubation modules
3-level shaking
Temperature range: RT~60°C
Plate cover design to avoid strong light interference

Microplate Washer Module

2 independent microplate washers, 16-channel (32-pin) washer head, 5-way cleaning solution
Injection uniformity CV < 1.5%, residual volume < 1μL/well
Program adjustable, applicable to microplates of different sizes

Microplate Reader Module

Built-in high-precision microplate reader
Single and dual wavelength detection, ten filter positions
Wide absorbance range, high sensitivity, good repeatability and strong stability

Parameters:

Model	BIOBASE2001	
Sample& Reagent Unit	Sample Racks	6*20 push-pull sample rack with detection
	Sampling Channel	2 channels
	Liquid Level Detection	Air pressure level detection, clot detection function
	TIP	1000ul, 3 TIP racks
	Pipetting	10ul~1000ul
	Pipetting Precision	100ul: CV≤1%, Accuracy≤2.5% 1000ul: CV≤0.5%, Accuracy≤1%
	Reagent Position	4 Reagent racks, reagent tanks with detection
Washing Unit	Washer	1 unit
	Washing Head	16-channel (32-pin), double row cleaning, hanging installation, with leakage recovery
	Injection Uniformity	CV < 1.5%
	Washing Residual	<1μl
Reading Unit	Reading Channels	8 independent photometric channels
	Linear Range	0.000-3.000Abs
	Repeatability	CV≤1.0%
	Stability	≤±0.003Abs
	Optical Filters	4 standard filters (405,450,492,630nm); Total 10 filters positions
	Reading Accuracy	≤±0.02Abs from 0.0 to 1.0 OD, ≤±0.03Abs from 1.0 to 2.0 OD
	Sensitivity	≥0.01mg/L
	Channel Difference	≤0.02Abs
Incubation Unit	Incubators	8 shaking incubators
	Cover Positions	1 (8 covers)
	Heating Method	Dry heating with cover
	Shaking Function	Horizontal circular oscillation, 1-3 levels adjustable, amplitude 2.5mm
	Temperature Range	RT to 60 °C
	Temperature Uniformity	0.5℃
	Temperature Fluctuation	±0.5℃
Data Management	Software	Above Windows 7 system
	LIS System	Bi-direction, support HL7 protocol
	Results	Absorbance and results reviewable by software
	Printer	External optional
	Built-in Scanner	Optional
Other Function	Biosafety Protection	Optional (Negative pressure working zone, HEPA filter)
	Disinfection	UV lamp
	Lighting	LED
	IAP Function	Firmware can be upgraded online at any time
Working Condition	Power Supply	AC220V±10%,50/60Hz(Standard); 110V±10%,60Hz(Optional)
	Temperature	10~40℃
	Humidity	30~80%
Size & Weight	External Size (W*D*H)	1275*750*1650mm
	Net Weight	330kg
	Package Size(W*D*H)	Machine: 1445mm*1130mm*920mm Base Stand: 1445mm*1005mm*920mm Accessories: 1065mm*510mm*895mm
	Gross Weight	Machine: 220kg; Base stand: 125kg; Accessories: 30kg

Auto ELISA Processor BIOBASE4001

Introduction:

Auto ELISA Processor BIOBASE4001 is a fully automatic detection equipment that integrates sample addition, incubation, shaking, washing, and reading. It is widely used in hospital laboratories, disease prevention and control centers, blood centers, and blood banks, animal and plant inspection and quarantine institutions, scientific research institutions, university laboratories and other places.

Features:

①. Adopt the principle of pressure type liquid detection.
②. With TIP detection, clot detection function.
③. High-precision pipetting, the lowest volume can reach 5ul.
④. Position sensing, real-time monitoring of gripper status.
⑤. Multi-spacing and multi-strength adjustable grippers can be adapted to grasp and place microplates and plate covers of different sizes.
⑥. Dual thread control, can run simultaneously with the sampling arm without interfering with each other.

Sampling Module

Disposable TIP design, high precision, zero carry-over pollution.
4 injection channels are independently controlled, and each channel runs independently in Y-Z direction.
With liquid level detection, TIP head detection, clot detection and other detection and alarm functions.

Smart Gripper Module

Safe, reliable, stable, efficient, fast and accurate gripper.
With position sensing system.
Real-time monitoring of the grabbing process to prevent falling.

Shaking Incubation Module

12 independent temperature-controlled shaking incubation modules.
3-level shaking.
Temperature range: RT~60°C.
Plate cover design to avoid strong light interference.

Microplate Washer Module

2 independent microplate washers, 16-channel (32-pin) washer head, 5-way cleaning solution.
Injection uniformity CV < 1.5%, residual volume < 1μL/well.
Program adjustable, applicable to microplates of different sizes.

Microplate Reader Module

Built-in high-precision microplate reader.
Single and dual wavelength detection, ten filter positions.
Wide absorbance range, high sensitivity, good repeatability and strong stability.

Parameters:

Model	BIOBASE4001	
Sample& Reagent Unit	Sample Racks	12*16 push-pull sample rack with detection
	Sampling Channel	4 channels
	Liquid Level Detection	Air pressure level detection, clot detection function
	TIP	1000ul, 5 TIP racks
	Pipetting	5ul~1000ul
	Pipetting Precision	100ul: CV≤0.5%, Accuracy≤2.0% 1000ul: CV≤0.5%, Accuracy≤0.5%
	Reagent Position	6 Reagent racks, reagent tanks with detection
Washing Unit	Washer	2 units
	Washing Head	16-channel (32-pin), double row cleaning, hanging installation, with leakage recovery
	Injection Uniformity	CV < 1.5%
	Washing Residual	<1μl
Reading Unit	Reading Channels	8 independent photometric channels, mono and dichromatic reading
	Linear Range	0.000-3.000Abs
	Repeatability	CV≤1.0%
	Stability	≤±0.003Abs
	Optical Filters	4 standard filters (405,450,492,630nm); Total 10 filters positions
	Reading Accuracy	≤±0.02Abs from 0.0 to 1.0 OD, ≤±0.03Abs from 1.0 to 2.0 OD
	Sensitivity	≥0.01mg/L
	Channel Difference	≤0.02Abs
Incubation Unit	Incubators	12 shaking incubators
	Cover Positions	2 (12 covers)
	Heating Method	Dry heating with cover
	Shaking Function	Horizontal circular oscillation, 1-3 levels adjustable, amplitude 2.5mm
	Temperature Range	RT to 60 °C
	Temperature Uniformity	0.5℃
	Temperature Fluctuation	±0.5℃
Data Management	Software	Above Windows 7 system
	LIS System	Bi-direction, support HL7 protocol
	Results	Absorbance and results reviewable by software
	Printer	External optional
	Built-in Scanner	Optional
Other Function	Biosafety Protection	Optional (Negative pressure working zone, HEPA filter)
	Disinfection	UV lamp
	Lighting	LED
	IAP Function	Firmware can be upgraded online at any time
Working Condition	Power Supply	AC220V±10%, 50/60Hz(Standard); 110V±10%, 60Hz(Optional)
	Temperature	10~40℃
	Humidity	30~80%
Size & Weight	External Size (W*D*H)	1775*190*1683mm
	Net Weight	445kg
	Package Size(W*D*H)	Machine: 1915*930*1150mm; Base Stand: 1905*920*995mm Accessories: 1370*930*530mm
	Gross Weight	Machine: 364.5 kg; Base stand: 208.5 kg; Accessories: 97kg

Elisa Microplate Reader

BK-EL10A　BK-EL10B　BK-EL10C　BK-EL10D

Features:

①.10.1-inch large touch screen operation.(Except BK-EL10B)

②.High precision and accurate results.

③.Software: Single wavelength and double wavelengths detection methods.

Parameters:

Model	BK-EL10A	BK-EL10B	BK-EL10C	BK-EL10D
Measurement Channel	Vertical 8 optical channels			
Plate Type	96-well microplate			
Wavelength Range	400 ~ 750nm			340 ~ 850nm
Filter	Standard 4 wavelengths of 405, 450, 492, 630nm(BK-EL10A, BK-EL10B, BK-EL10C) Standard 5 wavelengths of 340, 405, 450, 492, 630nm(BK-EL10D) Optional: Up to 10 wavelengths.			
Reading Range	0.000 ~ 3.000Abs		0.000 ~ 4.000Abs	0.000 ~ 4.500Abs
Linear Range	0.000 ~ 3.000Abs			0.000 ~ 3.500Abs
Resolution	0.0001Abs			
Repeatability	CV≤1.0%			CV≤0.2%
Stability	≤±0.005Abs		≤±0.003Abs	
Sensitivity	≥0.01 mg/L			
Channel Difference	≤0.02Abs			
Vibration Plate Function	3 kinds of vibration plate function, adjustable 0~255s(BK-EL10A, BK-EL10B, BK-EL10C) 5 kinds of vibration plate function, adjustable 0~255s(BK-EL10D)			
Incubation Function	Time Range: 0~60min Temp. Range: RT +4℃~50℃ (Only for BK-EL10D)			
Power Supply	AC100~240V, 50/60Hz			
Instrument Size(W*D*H)	450*320*300mm	450*320*190mm	450*320*300mm	495*340*370mm
Package Size(W*D*H)	540*400*460mm		585*425*405mm	610*440*475mm
Net/Gross Weight	13/15kg	10/12kg	11/13kg	12/14kg

Elisa Microplate Washer

Feature:

①.Microcomputer control, automatically complete the plate washing operation.

②.The liquid level sensing function automatically detects the liquid level, and automatically alarms when the cleaning liquid is insufficient and the waste liquid is overflowing.

③.The user-friendly operating system allows users to customize the plate type, set the number of washes, the amount of wash solution, the way to wash the plate, the suction point, the soaking and shaking time and other parameters.

④.The wash head is self-balancing, has two-point aspiration, and performs bottom flushing.

⑤.2 kinds of Automatic washing,Soaking andShaking, to reduce the interference adsorption during the reaction; time adjustable.

BK-9613

BK-9622

Parameters:

Model	BK-9622	BK-9613
Cleaning Head	8 channels and 12 channels	96 pins, single row controllable
Microplate Types	Four kinds, flat bottom, U bottom, V bottom, round bottom	
Average Residue	<1μl(per hole)	<0.7μl(per hole)
Liquid Suction Time	0.1~999.9 seconds adjustable, with an interval of 0.1 seconds	
Line Flush Time	1~999 seconds, adjustable	
Washing Programs	Up to 200 programs	
Display	7-inch touch display	
Liquid Injection Channels	3 (2 types of lotion and 1 type of distilled water)	
Cleaning Needle Position	6 types (horizontal, left, middle, right, bottom, hole spacing)	
Consumption	80W	350W
Power Supply	AC220V±10%, 50/60Hz; 110±10%, 60Hz	
Packing Size(W*D*H):	720*480*400mm	740*675*562mm
Gross Weight	20kg	42kg

Microplate Shaker
BK-MS200

Descripfion:

BK-MS200 Thermo Shaker for Microplates is with technique of direct brushless DC motor and PID intelligent temperature control. It is mainly used for shaking and cultivation in Elisa plates (96/384 wells), tissue culture plates(24/48/96 wells).

Features:

①. LCD displays system status and parameters.
②. Stable and reliable operation with high quality switch.
③. Easy to operate with one touch knob.
④. Setup the time within 0~100 hours, instrument will make alarm voice when completing.
⑤. With power recovery, instrument will continue to run when power recovers from outage.
⑥. 12-month warranty.
⑦. The mechanism of the incubator-heated base and cover

Parameters:

Model	BK-MS200
Temp. Control Range	RT.+5℃~80℃
Timing Range	1min ~ 99h59min
Temp. Accuracy	≤±0.5℃
Display Accuracy	0.1℃
Temp Uniformity	≤±0.5℃
Shaking Speed	200-1600rpm
Orbit	3mm
Capacity	2pcs microplates or culture plates
Power Supply	150W
Voltage	AC100V~240V 50/60Hz
Heating Time	≤10min (from RT. to 80℃)
Dimension	280×270×140mm
Net Weight	7kg
Package Size(W*D*H)	440*360*260mm
Gross Weight	7.5kg

Microplate Shaker
BK-MS300

Descripfion:

BK-MS300 Thermo Shaker for Microplates is a multipurpose thermostatic shaker controlled by brushless DC motor and PID intelligent temperature control technology. The PID fuzzy control technology can be accurate to ensure that the temperature control precision and automatically adjust the heating rate, reduce waiting time.

Features:

①. Easy to set up and use, all information real-time display and showing set up operation, convenient to observe equipment running status.
②. Support standard microplates and deep well plates.
③. Brushless DC motor, low noise, small interference, free maintenance.
④. Automatic preheating function.
⑤. Automatic power recovery function.
⑥. Temperature calibration function.
⑦. Built-in software and hardware over temperature protection device, will use more reliable.

Parameters:

Model	BK-MS300
Temp. Setting Range	0~80℃
Temp. Control Range	RT+5℃~80℃
Timing Range	1min ~ 99h59min/∞
Temp. Accuracy	≤±0.5℃
Display Accuracy	0.1℃
Temp Uniformity	≤±0.5℃
Shaking Speed	200~1350rpm
Orbit	3mm
Auto Preheating	Yes
Auto Resume to Run	Yes
Capacity	4Microplates or deep-well plates
Power Supply	300W
Voltage	AC220V or AC110V, 50/60Hz
Heating Time	≤15 min (from 25℃ to 80℃)
Dimension	340*320*200mm
Net Weight	9.5kg
Package Size(W*D*H)	490*450*315mm
Gross Weight	11.5kg

Fluorescence Immunoassay Analyzer BKP1000

Introduction:

BKP1000 adopts the leading flow system design and whole machine topology design, which is highly intensive. It is one of the current "mini" fluorescence immunoassay analyzers, which is very suitable for actual needs.
BKP1000 is small in size, excellent in performance, and many performance indicators are ahead of the industry level, providing the best solution for primary clinical.

Application:

It is suitable for clinical diagnosis of disease control medical treatment, health examination centers, scientific research institutions and laboratories, food hygiene and safety testing,, blood product companies, central blood stations, etc.

Features:

①. The instrument is compact, easy to carry, can be connected to the code scanner, and can be connected to the LIS/HIS system.
②. The test results are automatically printed, and an external printer can also be connected through a computer.
③. Sample types: Serum, plasma, whole blood and urine.
④. Sample instant test can be performed at any time, with random sample insertion function.
⑤. Supports multiple items in one card, and the detection time can reach 8 seconds/Test.
⑥. Appearance design integration, 7-inch color touch screen.
⑦. It can provide two operation modes of instant test and standard test.

Parameters:

Model	BKP1000
Excitation Light Source	LED
Wavelength	Excitation wavelength λ_0=365nm; Detection wavelength λ_1=615nm
Detection Channel	1
Sample Type	Serum, plasma, whole blood and urine, etc.
Detection Mode	Supports multiple items in one card
Testing Speed	<10s/test
Repeatability	CV≤5%
Stability	σ≤±8%
Linear Correlation	(r)≥0.98
Accuracy	Δn≤±8%
Display	7-inch color touch screen
Language	Chinese, English, Other languages can be customized
Interface	RS232, USB, Ethernet port
Printer	Built-in thermal printer
Power Supply	100~240V 50/60Hz
External Size(L*W*H) mm	215*310*158
Net Weight (kg)	3
Package Size(L*W*H) mm	460*330*250
Gross Weight (kg)	4.2

Fluorescence Immunoassay Analyzer BKP2000

Introduction:

BKP2000 multi-channel dry fluorescence immunoassay analyzer, 12 independent incubation channels, automatic induction of reagent card insertion, automatic printing of test results, and automatic card loss. The 10.1-inch LCD screen has a better visual experience.
It is mainly composed of an optical detection module (fluorescence), a scanning module, a data processing module, a liquid crystal display module, an incubation module, an information acquisition module (ID card reader), a power supply, and a printer.

Application:

It is suitable for in vitro diagnostic tests in central laboratories, outpatient/emergency laboratories, clinical departments, physical examination centers and scientific research laboratories of medical institutions.

Features:

①. 12 independent constant temperature incubation channels, which can detect 12 different items at the same time
②. Automatic induction of reagent card insertion, automatic printing of test results, and automatic card loss.
③. Built-in thermal printer, can also be connected to an external printer.
④. 10.1-inch large LCD screen with a resolution of 800*480 or more, the visual experience is better.
⑤. The temperature range can be manually set to quickly achieve the predetermined temperature effect and improve the reaction rate.
⑥. The operation is convenient, the data is automatically read, and the single detection time is less than 10s.

Parameters:

Model	BKP2000
Excitation Light Source	LED
Wavelength	Excitation wavelength λ_0=365nm; Detection wavelength λ_1=615nm
Detection Channel	1
Incubation Position	12
Sample Type	Serum, plasma, whole blood and urine, etc.
Detection Mode	Supports multiple items in one card
Testing Speed	<10s/test
Repeatability	CV≤5%
Stability	σ≤±8%
Linear Correlation	(r)≥0.98
Accuracy	Δn≤±8%
Display	10.1-inch color touch screen
Language	Chinese, English, Other languages can be customized
Interface	RS232, USB, Ethernet port
Printer	Built-in thermal printer
Power Supply	100~240V 50/60Hz
External Size(L*W*H) mm	336*410*400
Net Weight (kg)	17
Package Size(L*W*H) mm	610*530*715
Gross Weight (kg)	36.5

Fluorescence Immunoassay Reagent

Reagent Menu of Fluorescence Immunoassay Analyzer:

Product Name	Fluorescence Immunoassay Reagent
Inflammation	Supersensitive CRP + Conventional CRP
	IL-6
	SAA
	PCT
Cardiac Markers	cTnI
	CK-MB/cTnI/MYO
	NT-proBNP
	H-FABP
	D-Dimer
	MYO
	CK-MB
Hormone	FSH
	LH
	PRL
	TSH
	AMH
	β-HCG
	PROG
	TT4
	TT3
Renal Function	Cystatin
	MALB
	NGAL
	β2-MG
Diabetes	HbA1C
Bone Metabolism	25-OH-VD
Anemia	Ferritin

5-Part Auto Hematology Analyzer BK-6310

Features:

①. Throughput: 60T/H.
②. 14 inch touch screen.
③. Tri-angle laser scatter + flow cytometry method + impedance method for counting.
④. 3D holographic scattergram displays the accurate 5 part differentiation of WBC.
⑤. Large storage capacity: 100,000 results (including histogram, scattergram, patient information).

Parameters:

Model	BK-6310			
Throughput	60 Tests/hour			
Assay Items	5 parts, 29 parameters, 3 histograms, 3D scattergram			
Principle	Tri-angle laser scatter, Flow cytometry method, 3D scattergram analysis, Impedance method for RBC and PLT counting, Cyanide free reagent for HGB test			
Test Mode	CBC mode, CBC+DIFF mode Venous whole blood, Capillary whole blood and Prediluted			
Parameters	WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PCT, PDW, P-LCR, P-LCC, NEU%, LYM%, MON%, EOS%, BAS%, NEU#, LYM#, MON#, EOS#, BAS# 4 Research parameter: ALY%, ALY#, IG%, IG#			
Performance	Item	Linearity range	Carry Over	CV
	WBC	0~300*10⁹/L	≤ 0.5%	≤ 2.0%
	RBC	0~8.00*10¹²/L	≤ 0.5%	≤ 1.5%
	HGB	0~250g/L	≤ 0.5%	≤ 1.5%
	PLT	0~3000*10⁹/L	≤ 1.0%	≤ 4.0%
Sample Volume	CBC+DIFF mode: ≤20μl CBC mode: ≤10μl			
Storage	100,000 results including histogram, scattergram and patient information			
Interface	4 USB ports, 1LAN port Bi-direction LIS, support HL7 protocol, Internal RFID reader			
Power Supply	AC220V±10% 50/60Hz; 110V±10% 60Hz; 400VA			
Package Size(W*D*H)	670*590*790mm			
Gross Weight	53kg			
Reagent Package Size	330*330*330mm, 400*290*240mm, 400*290*240mm			
Reagent Gross Weight	22kg, 2kg, 1kg			

Auto Hematology Analyzer
BK-3200

Features:

① 9.7-inch color touch LCD screen, easy to operate, display all parameters and histograms on the same screen.
② Fewer samples are required for testing: whole blood≤12μl, pre-diluted≤20μl.
③ 60 samples/hour.
④ 21 parameters + 3 histograms.
⑤ It can be turned on continuously for 24 hours.
⑥ Automatically clean the sampler, counting pool and pipeline after starting up.
⑦ Built-in thermal printer, external printer can be connected.
⑧ Electrical impedance method, cyanide-free detection of HGB.
⑨ Fully intelligent blockage removal and alarm function.
⑩ Both automatic calibration and manual calibration are available.
⑪ Counting Mode: Venous, capilary, prediluted.
⑫ Support LIS system.

Technical Parameter:

Model	BK-3200					
Throughput	60 samples/hour					
Principle	Impedance for WBC differentiation and WBC/RBC/PLT count; Colorimetric method for HGB					
Channels	2					
Parameters	21 parameters(including WBC, Mid#, Lym#, Gran#, Mid%, Lym%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC,RDW-SD, RDW-CV, PLT, MPV,PDW,PCT, P-LCR,P-LCC)					
Histograms	3 histograms (including WBC, RBC, PLT histograms)					
Sample Volume	Whole blood: 12μl, Prediluted: 20μl					
Calibration	Manual, auto calibration					
Counting Modes	Venous, capilary, prediluted					
Printing Model	Auto print, manual print					
LIS	Support Bi-directional LIS					
Language	Chinese, English, Spanish, French, Russian, Ukrainian					
Reagent	Diluent 10L, Hemolytic agent 250ml, Probe cleanser: 50ml					
Data Input	9.7-inch touch screen, mouse, keyboard (optional)					
Output	Internal printer, support external printer					
Printer Paper	57*30mm					
Interface	4 USB ports, network port,RS232 serial port					
Storage	100,000 results with histogram					
Unclog	High voltage burn, reverse high-pressure flush					
Work Temperature	15-30°C					
Power Supply	100~240 AC, 50/60Hz, 150VA					
Relative Humidity	30%~85%					
Atmospheric Pressure	70.0kPa-110.0kPa					
Carry-Over Rate	Parameter	WBC	RBC	HGB	PLT	
	CV	≤ 1.5%	≤ 1%	≤ 1%	≤ 3%	
Background	Parameter	WBC	RBC	HGB	HCT	PLT
	Background	≤ $0.3*10^9$/L	≤ $0.03*10^{12}$/L	≤ 1 g/L	≤ 0.5%	≤ $10*10^9$/L
Linearity	Parameter	Measurement range		CV		
	WBC	(0.5~10.00*10^9)/L	(10.10~99.9*10^9)/L	(±0.5*10^9)/L		±5%
	RBC	(0.05~1.00*10^{12})/L	(1.01~9.99*10^{12})/L	(±0.05*10^{12})/L		±5%
	HGB	(2~70g)/L	(71~300.0g)/L	(±2.0g)/L		±2%
	PLT	(10~100*10^9)/L	(101~999*10^9)/L	(±10.0*10^9)/L		±8%
Precision	Parameter	Whole blood (CV)	Pre-diluted (CV)	Measurement range		
	WBC	≤ 2.0%	≤ 4.0%	(4.0-15.0*10^9)/L		
	RBC	≤ 1.6%	≤ 3.0%	(3.5-6.0*10^{12})/L		
	HGB	≤ 1.6%	≤ 3.0%	(110.0-180.0g)/L		
	MCV	≤1.0%	≤2.0%	(70.0-120.0)fL		
	PLT	≤ 4.0%	≤8.0%	(150.0-500.0*10^9)/L		
External Size(W*D*H)	295*467*418mm					
Packed Size(W*D*H)	Instrument: 404*564*616mm; Reagent: 340*340*340mm					
Net Weight	19 kg					
Gross Weight	Instrument: 31kg; Reagent: 13 kg					

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^-, Ca^{2+}, Li^+, Mg^{2+}, pH, TCO_2 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	60~150ul	200ul
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℃	
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, TCO2, AG	K^+, Na^+, Cl^-, iCa^{2+}, nCa^{2+}, TCa^{2+}, pH, TCO2, 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
Test Items	K^+, Na^+, Cl^-, iCa^{2+}, nCa^{2+}, TCa^{2+}, pH, TCO_2, AG, Li^+, Mg^{2+}
Sample Tray	Yes
External Size(W*D*H) mm	682*287*471
Net Weight (kg)	15.76
Package Size(W*D*H) mm	Instrument:500*390*720 Reagent:280*135*210, 220*160*120
Gross Weight (kg)	Instrument:19.96 Reagent: 2.2,1.2

Items	Measuring Range	Resolution
K^+	0.5-20.0mmol/L	0.01mmol/L
Na^+	15-200mmol/L	0.01mmol/L
Cl^-	15-200mmol/L	0.01mmol/L
Ca^{2+}	0.1-6.0mmol/L	0.01mmol/L
pH	4-9	0.01
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); Filling solution in electrode (3ml*2); 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)

Blood Coagulation Analyzer
BK-CA02 & BK-CA04

BK-CA02

BK-CA04

Introduction:

The blood coagulation analyzer adopts the principle of optical colorimetry for detection. After the reagent is mixed with the plasma, fibrinogen is converted into fibrin and coagulated, which leads to the change of the optical density of the test specimen, and the instrument detects the coagulation end point.

Application:

It is suitable for the detection of prothrombin time (PT), activated partial thromboplastin time (APTT), thrombin time (TT) and fibrinogen (FIB) in plasma. .

Widely used in blood laboratory, biochemical laboratory, hospital blood laboratory and so on.

Features:

①. Dual-channel independent detection, can analyze different items at the same time.

②. 5-inch high-definition touch screen, easy to operate.

③. Open system, good compatibility, Supports reagents of various specifications.

④. 200,000 results storage.

⑤. Equipped with multiple pre-temperature positions to improve detection efficiency.

⑥. Built-in thermal printer.

⑦. The pipette automatically triggers the measurement, and the measurement time can be accurate to tenths of a second.

⑧. Less reagent consumption.

Parameters:

Model	BK-CA02	BK-CA04
Test Principle	Optical Colorimetry	
Test Items	PT, APTT, TT, FIB	
Test Channel	2 (can test different projects at the same time)	4 (can test different projects at the same time)
Wavelength	470nm	
Detection Time	Normal sample detection time is 20 to 40 seconds, and can be set arbitrarily from 20 to 99 seconds	
Sample Incubation Position	12	24
Reagent Incubation Position	5	6
Detection Position Temperature	37.0±1.0°C	
Incubation Position Temperature	37.0±1.0°C	
Incubation Time	1-999s	
Reaction Time	1-99s	
Reagent Dosage	Minimum dosage 20μl	
Sample Volume	20μl~40μl	
Display	5-inch high-definition color touch screen	
Storage	20,000 results storage, automatically save measurement data when power off	
Communication Interface	RS232 serial interface, support LIS system	
Printer	Built-in thermal printer	
Power Supply	AC100~240V, 50/60Hz	
Consumption	70VA	
Ambient Temperature	10℃~30℃	
Relative Humidity	≤80%	
Atmospheric Pressure	86kPa~106kPa	
External Size (W* D*H)	360*210*120mm	390*250*135mm
Net Weight	3.5kg	4.96kg
Package Size (W* D*H)	376*246*316mm	445*305*265mm
Gross Weight	5kg	7kg

Blood Coagulation Reagent

Activated Partial Thromboplastin Time (APTT) Assay Kit

Application:

Activated partial thromboplastin time (APTT) is a screening test to check endogenous coagulation factors, and is used to confirm the deficiencies of congenital or acquired coagulation factors VI, IX, XI or the presence of their corresponding inhibitors; At the same time, APTT can also be used to confirm the deficiency of coagulation factor XI, prokallikrein and high molecular weight prokallikrein; due to the high sensitivity of APTT and the action pathway of heparin is mainly the endogenous coagulation pathway, APTT has become the preferred indicator for monitoring unfractionated heparin, with a ratio of 1.5-2.5 being the best.

This kit is used for the determination of activated partial thromboplastin time in human plasma in vitro for auxiliary diagnosis.

Features:

①. Convenient and efficient.
②. High accuracy.
③. Good repeatability.

Parameters:

Product Name	Activated Partial Thromboplastin Time (APTT) Assay Kit	
Component	Reagent: 2ml*10, 2.5ml*10, 4ml*10 $CaCl_2$: 25ml*1, 30ml*1, 45ml*1 QC (normal, abnormal): 0.5 mL*1, 1.0 mL*1	
Reagent Performance	Reference Range	≤35s
	Repeatability	CV≤5%
	Batch Variations	R≤10%
QC Performance	In-bottle Uniformity	CV≤10%
	Uniformity between Bottles	CV≤10%

Prothrombin Time (PT) Assay Kit

Application:

Prothrombin time is a screening test for exogenous coagulation factors, which is used to confirm the presence of congenital or acquired defects or inhibitors of fibrinogen, prothrombin, and coagulation factors V, VII, and X; At the same time, it is used to monitor the dosage of oral anticoagulants, which is the preferred indicator for monitoring oral anticoagulants. It can also be used as a detection index for the function of hepatic protein synthesis.

This kit is used for the determination of prothrombin time in human plasma in vitro for auxiliary diagnosis.

Features:

①. High precision.
②. Stable performance.
③. Strong anti-interference.

Parameters:

Product Name	Prothrombin Time (PT) Assay Kit	
Component	Reagent: 2ml*10, 2.5ml*10, 4ml*10 Reconstitution solution: 25ml*1, 30ml*1, 45ml*1 QC (normal, abnormal): 0.5 mL*1, 1.0 mL*1	
Reagent Performance	Reference Range	≤14s
	Repeatability	CV≤5%
	Batch Variations	R≤10%
QC Performance	In-bottle Uniformity	CV≤10%
	Uniformity between Bottles	CV≤10%

Blood Coagulation Reagent

Thrombin Time (TT) Assay Kit

Application:

TT reflects the level of fibrinogen in plasma and the amount of heparin-like substances in plasma. TT decreased when fibrinogen increased and fibrinogen decreased, otherwise TT increased. Can be used for the detection of heparin dosage. This kit is used to measure thrombin time in human plasma samples in vitro.

Features:

①. Good stability.
②. Complete specifications.
③. High precision.

Parameters:

Product Name	Thrombin Time (TT) Assay Kit	
Component	Reagent: 2ml*10, 2.5ml*10, 4ml*10 Reconstitution solution: 25ml*1, 30ml*1, 45ml*1 QC (normal, abnormal): 0.5 ml*1, 1.0 ml*1	
Reagent Performance	Reference Range	≤20s
	Repeatability	CV≤5%
	Batch Variations	R≤10%
QC Performance	In-bottle Uniformity	CV≤10%
	Uniformity between Bottles	CV≤10%

Fibrinogen (FIB) Assay Kit

Application:

Fibrinogen is the main protein in the coagulation process. In addition to the stress response under physiological conditions and the third trimester of pregnancy, FIB increase mainly occurs in acute infections, burns, atherosclerosis, acute myocardial infarction, autoimmune diseases, multiple Myeloma, diabetes, pregnancy-induced hypertension and acute nephritis, uremia, etc.; FIB reduction is mainly seen in DIC, primary hyperthyroidism, severe hepatitis, liver cirrhosis and thrombolytic therapy. This kit is used to quantitatively determine the content of fibrinogen in human plasma in vitro for auxiliary diagnosis.

Features:

①. Stable performance
②. Good precision
③. Easy to transport

Parameters:

Product Name	Fibrinogen (FIB) Assay Kit	
Component	Reagent:2ml*5, 2.5ml*5, 1ml*10 Diluent:50ml*2 Calibrator: 0.5 ml*1, 1.0 ml*1 QC (normal, abnormal): 0.5 ml*1, 1.0 ml*1	
Reagent Performance	Accuracy	R≤ 15%
	Linearity	R> 0.98 @ 80~500mg/dl
	Repeatability	CV≤8%
	Batch Variations	CV≤15%
Calibrator Performance	Correctness	|En| ≤1
	In-bottle Uniformity	CV≤10%
	Uniformity between Bottles	CV≤10%
QC Performance	In-bottle Uniformity	CV≤10%
	Uniformity between Bottles	CV≤10%

Auto ESR Analyzer
BK-ESR20&BK-ESR40

BK-ESR20

BK-ESR40

Introduction:

ESR testing has important guiding significance for many clinical diseases, but the traditional standard Westergren method has complicated operation, low work efficiency and large cross-contamination. Automatic ESR analyzer uses advanced infrared light color difference interpretation technology to automatically scan the whole process of red blood cell sedimentation within 30 minutes for the sample of the vacuum blood collection tube, and refer to the Westergren method to measure the standard curve to obtain accurate results.

Application:

Applicable to hospital inspection departments, medical laboratories, research institutes, universities, disease control centers, etc.

Features:

①. 7-inch color touch LCD screen, easy to operate, high resolution.

②. 40 samples/hour(BK-ESR20), 80 samples/hour(BK-ESR40), rapid detection

③. Randomly insert sample positions for testing at any time.

④. Built-in thermal printer for easy data printing.

⑤. Results are automatically temperature compensated.

⑥. Advanced optical testing principles to overcome reading errors in manual methods.

⑦. Power-off save function, automatically save the test results.

Parameters:

Model	BK-ESR20	BK-ESR40
Application	Erythrocyte sedimentation rate analysis	
Measurement Method	Infrared detection	
Analysis Result	Westergren ESR value (mm/hour)	
Throughput	Maximum 40 tests/hour	Maximum 80 tests/hour
Analysis Channels	20 (load up to 20 samples for analysis at the same time)	40 (load up to 40 samples for analysis at the same time)
Loading Type	Load samples at any time, measure at any time	
Analysis Time	30 minutes or 60 minutes selectable	
Sampling Interval	3 min	
Measurement Range	0~150mm/h	
Temperature Compensation	The result is automatically corrected to the result at 18°C	
Result Resolution	1mm/1h and 1mm/2h	
Blood Level Range	46mm~64mm	
HCT Range	0.2~1.0	
Repeatability	0~10mm/h, SD≤1.5mm/h; >10mm/h, CV≤15%	
Channel Consistency	0~10mm/h, SD≤1.5mm/h; >10mm/h, CV≤15%	
Reading Accuracy	0.2mm	
Coincidence	≥90%	
Display	7-inch color LCD touch screen	
Communication Interface	RS232 serial interface	
Printer	Built-in thermal printer	
Power Supply	AC100~240,220V 50/60Hz	
External Size (W* D*H)	260*230*190mm	360*300*180mm
Net Weight	4.9kg	7.3kg
Package Size (W* D*H)	310*270*340mm	395*335*375mm
Gross Weight	7.2kg	10kg

Urine Analyzer BH-NY01

Strip position

Liquid waste drawer

Waste drawer

Features:

①. The test speed is fast and can be used for mass physical examination.

②. Large LCD touch screen,convenient man-machine interaction.

③. Cutting-edge computer vision technology, more accurate and reliable.

④. Traceability: The inspection results and photo can be archived, convenient for users to review.

⑤. Automatic induction strip, automatic unloading strip, automatic abnormal results reminder.

Application Places

Hospitals

Scientific research institutions

Maternity and child hospitals

Community clinics

Parameters:

Model	BH-NY01
Principle	Computer vision detection technology
Throughput	700Tests/hour
Screen	7-inch touch screen
Memory	Large-capacity storage, support multiple detection record query modes
Printer	Built-in thermal printer
Working Condition	Temperature: 5-40℃ ; Humidity: <85%
Interface	USB, support data export ; Barcode scanner (optional)
Range of Application	9, 10, 11, 14 Test strip
Items	9 Test strip: GLU, BIL, KET, pH, BLO, PRO, URO, NIT, LEU 10 Test strip: GLU, BIL, KET, SG, pH, BLO, PRO, URO, NIT, LEU 11 Test strip: GLU, BIL, KET, SG, pH, BLO, PRO, URO, NIT, LEU, VC; 14 Test strip: GLU, BIL, KET, SG, pH, BLO, PRO, URO, NIT, LEU, VC, CRE, Ca, MCA.
Power Supply	AC100-240V, 50/60Hz, 40VA
Net Weight	4kg
Gross Weight	8kg
External Size (W*D*H)	346*320*206mm
Package Size (W*D*H)	425*385*305mm

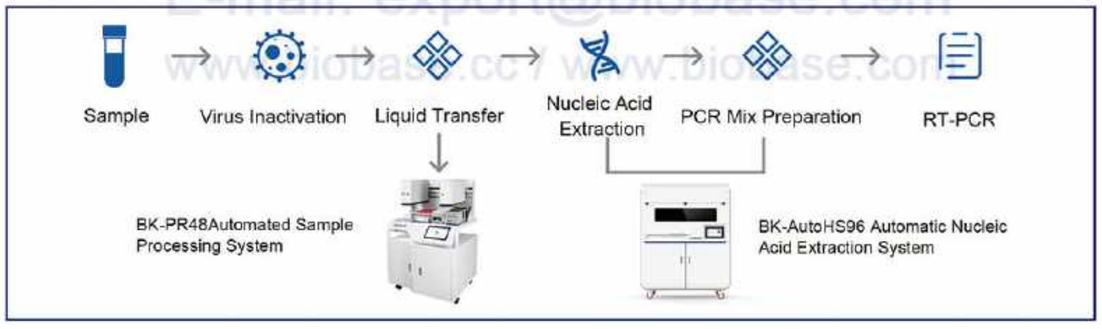
Remark: The machine comes standard with 10 test strips.

Automated Sample Processing System
BK-PR32 & BK-PR48

BK-PR32

BK-PR48

Work Process:



Introduction:

The Automated Sample Processing System is equipped with an independent HEPA filter system, and the Automated Sample Processing System can be used with a biological safety cabinet.

It can complete lidopeninglclosing, dispensing, proteinase Kinternal control addition, which helps laboratories quickly improve their large-scale nucleic acid detection capabilities.

Application:

Sample processing for clinical diagnosis, epidemic surveillance, food safety, forensic identification, scientific research, etc., especially for samples of SARS-CoV-2 or other virulent infectious diseases.

Features:

Safety: Automated Sample Processing System is equipped with high-efficiency filter and built-in UV lamp, and it can be used with a biological safety cabinet, to effectively prevent aerosol pollution.

Efficient: Cooperative processing with dual robotic arms

Convenient: Visual interface operation, easy to operate

Compatibility: Compatible with a variety of pipette tips, deep well plates, sampling tubes. (including blood collection tubes) specifications

Smart: One-key operation, smart dispensation

Parameters:

Model	BK-PR32	BK-PR48
Throughput	1-32	1-48
Processing Time	32 samples/10min	48 samples/16min
Sample Type	Plasma, serum, whole blood, swab solution and other samples	
Sample Rack	1Pcs, 3*12 with locking device (compatible with a variety of sampling tubes)	1Pcs, 6*8 with locking device (compatible with a variety of sampling tubes)
Robot Arm	1 pcs (Dispensation arm)	2 pcs (Dispensation arm and Screw cap arm)
Plate Position	2 pcs (Compatible with I-shaped and square boards)	3 pcs (Compatible with multi-specification deep-well plates)
Tip Position	3 pcs (Including tip waste box position)	
Reagent Rack	1 pcs (4*2ml centrifuge tube+4*2ml freezing tube+4*5ml freezing tube)	
Protective Function	Can be used in a biological safety cabinet External droplet catch tray design With air-tight and anti-drip design	
Liquid Detection	Pneumatic liquid level detection principle, intelligent detection of blocked needle	
Pipetting Volume	5-1000ul (1000/50ul Tip)	
Pipetting Accuracy	10ul, CV≤1.5%, Accuracy≤6.0%, 50ul Tip 50ul, CV≤1.0%, Accuracy≤2.0%, 1000ul Tip 100ul, CV≤0.5%, Accuracy≤2.0%,1000ul Tip	
Power Supply	220V,50/60HZ;110V,60HZ	
External Size (W*D*H)	540*637*1113mm	827*794*1223mm
Net Weight	56kg	100kg
Package Size (W*D*H)	670*810*1314mm	Main instrument: 925*925*817mm; Base cabinet:1030*995*1045
Gross Weight	76kg	Main instrument: 115kg; Base cabinet:105kg

Nucleic Acid Extractor
BNP32/BNP48

BNP32

BNP48

Operation Process:

Features:

①. 7-Inch touch screen, easy to use, fast response

②. User-defined cracking and elution temperature

③. UV disinfection fuction, time range 1min-24hour

④. Automatic control system, no need connect to computer

⑤. Free programming to meet the needs of different reagent

⑥. Open system, fully automatic, stable results and good repeatability

⑦. Extract rapidly 9~40 minutes , 32/48 samples can be extracted at the same time

Parameters:

Model	BNP32	BNP48
Sample Quantity	32	48
Processing Volume	60μL-1000μL	
Sample Volume	20-500μL	
Sample Throughput	1-32	48
Magnetic Bead Recovery	>98%	
Extracting the Difference Between Holes	CV≤3%	
Heating Temperature	8 independent heating modules, customize lysis and elution temperature (temperature range) according to your needs	
Oscillating Mixing	Low,medium and high three gears are adjustable, and the fluctuation range can be adjusted with the reagent volume	
Reagent Type	Magnetic bead open platform	
Extraction Time	8-60 min/round (depending on the reagent used)	
Internal Program	48 groups	50000 groups
Program Management	Powerful program editing capabilities to meet different reagent needs. U disk program import and export can be achieved	
Safety Door Design	After the safety door is opened,the program operation will be automatically suspended, and the program can continue to run after the safety door closed	
Built-in Air Duct	Yes	Yes
Ultraviolet Irradiation	Yes	
Package Size(W*D*H)	580*510*700mm	700*520*750mm
Gross Weight	51kg	80kg

Automatic Nucleic Acid Extraction System
BK-HS32

Features:

①. Friendly user interface: Smart & Intelligent display. With 10.1 inch LCD touch screen, Windows operating system.

②. Zero Aerosol Contamination High efficiency HEPA filter and Auto safety door protection function, effectively prevent aerosol contamination. HEPA filter and UV lamp replacement alarm functions.

③. UV Sterilization Lamp With manual or set automatic opening time UV lamp, sterilizing the operation area easily and effectively.

④. Integrated Shaking & Heating Module Mix deep wells while heating, saving extraction time.

⑤. Concave design heating belt fitsthe deep hole tube, ensure rapid and uniform temperature rise, improve the splitting and elution efficiency.

Parameters:

Model	BK-HS32
Extraction Method	Magnetic Beads
Sample Capacity	32
Processing Volume	20~1000μl
Extraction Time	15~60min
Magnetic Bead Recovery	≥98%
Extraction Difference Between Wells	＜3%
Magnetic Rod Flux	4500Gs
Temperature Range	Adjustable heating function, RT-100 °C
Oscillating Mixing	Vertical Mixing, low, medium, high three gears adjustable
Module Station	2
Protection Function	Star up self-chekcing, power off protection, high temperature alarm, over temperature protection, motor protection
Disinfection Method	8W UV Lamp
Illuminating Lamp	3.4W LED Lamp
Operation Interface	10.1 inch capacitive touch screen / Windows system
Barcode Scanning Function	Optional external barcode sanner
Project Storage	>1000
Interface	2 USB port, optional LAN port
Contamination Control	Class II HEPA filter can effectively filter the internal aerosol and prevent cross contamination
IAP Function	Firmware can be updated online at any time
Power Supply	AC100~240V 50Hz/60Hz
External Size(W*D*H)	450*440*532mm
Package Size(W*D*H)	538*538*750mm
Gross Weight	37kg

Automatic Nucleic Acid Extraction System
BK-HS96

Application:

BK-HS96 is a high throughput, high sensitivity automatically extracted nucleic acid purification equipment, matching nucleic acid extraction kits is used to automatically complete the extraction of sample nucleic acid, flexible, stable result, low cost, equipped with efficient filtration device and safety gate design, it can effectively avoid cross infection and ensure the quality of nucleic acid extraction., guarantee the quality of nucleic acid.

Features:

①. Display: 10.1 inch touch screen, easy to operate

②. Accurate temperature control and rapid temperature rise, can be adopted to actively reduce to room temperature and store samples in a short time at low temperature.

③. The module is integrated with shaking and heating, which can be mixed with shaking while heating, saving extraction time.

④. Equipped with ultraviolet disinfection lamp, HEPA high efficiency filter and safety door protection function, it can effectively prevent aerosol pollution.

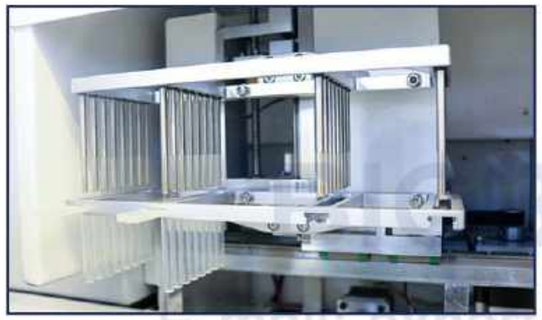
Parameters:

Model	BK-HS96
Nucleic Acid Extraction Method	Paramagnetic particle method
Sample Capacity	96-well
Sample Volume	20-1000ul
Extraction Time	11min-60min
Magnetic Bead Recovery	≥98%
Magnetic Flux of Bar	≥4500Gs
Operating Temperature	RT-105℃
Shock Function	Yes
Temperature Accuracy	0.1℃
Sample Protection Function	Power on self-check, power off protection, high-temperature alarm, over-temperature protection
Disinfection Method	UV Light
Safety Door Design	The instrument is suspended when the safety door is opened
Operating System	Windows system
Scanning	Optional
Storage	>1000
Interface	USB interface
Power Supply	AC100-240V 50Hz/60Hz
Package Size(W*D*H)	940*710*910mm
Gross Weight	110kg

Automatic Nucleic Acid Extraction System
BK-AutoHS96

Robotic Arm

Working Zone



Extraction Area

LCD Display

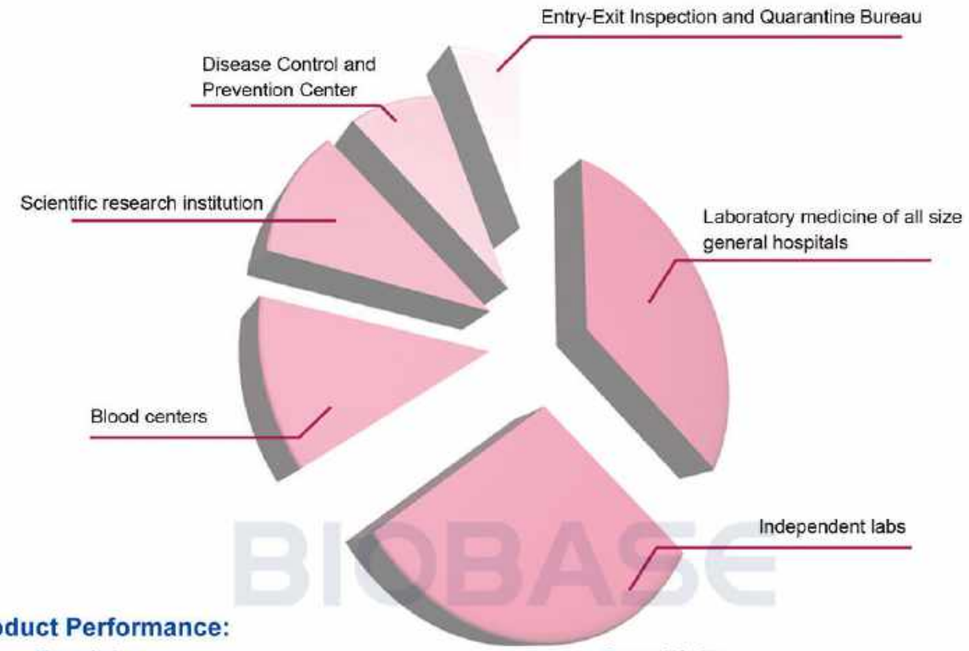
Introduction:

BK-AutoHS96 Automatic Nucleic Acid Extraction System is a fully automatic high-throughput equipment with automatic sample addition, nucleic acid extraction and PCR system configuration. With magnetic bead extraction reagents, it is suitable for automatic nucleic acid extraction and purification of 1-96 clinical samples of various types. The flexible automatic liquid handling function can accurately complete sample loading and reagent distribution according to requirements. Humanized software design, simple operation, no manual steps, greatly improving work efficiency.

Feature:

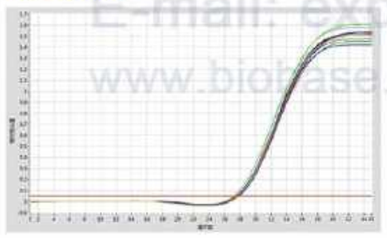
* Accurate pipetting, air pressure correction can adapt to extreme environments such as flat ground, plateau, island, etc., to ensure the accuracy of pipetting.
* 96 samples can be processed within 60 minutes, realizing high-throughput processing of samples, saving time and effort.
* Reagent position and PCR plate position, can be refrigerated at 4℃.
* With high-efficiency filter, ultraviolet disinfection and sterilization, and safety door functions, effectively prevent microbial pollution.
* Multi-threaded control and three-module extraction can run three different extraction programs at the same time.
* Intelligent temperature control, over-temperature protection function.
* Preset multiple experimental programs, strong compatibility, suitable for various types of sample graphic guides, visualized operations.
* Nucleic acid products can be allocated to the 2*96 PCR reaction system to flexibly construct a variety of different PCR detection systems.

Application:



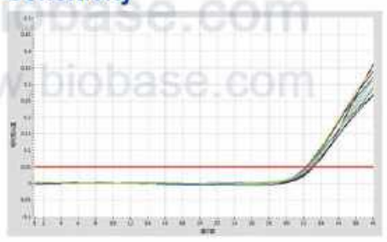
Product Performance:

Precision



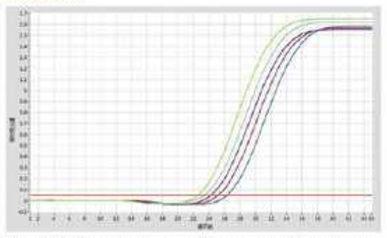
The same HCV samples were repeatedly extracted for 10 times and analyzed by qPCR. CV<3%

Sensitivity



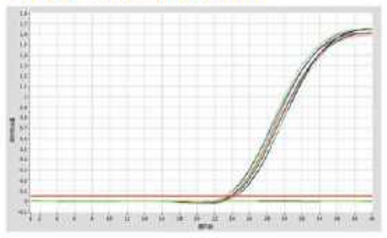
The HCV samples with the concentration of 151U/mL were extracted, and the detection rate was 10/10

Linear



The HCV positive samples were diluted with equal dilution, and the linear correlation coefficient was $R^2 > 0.98$

Cross Contamination



HCV positive and negative samples were cross-extracted without cross-contamination

Parameters:

Model	BK-AutoHS96
Extraction Method	Magnetic Bead Method
Working Mode	Automatic sampling + Nucleic acid extraction + PCR reaction system addition
Throughput	1-96, Linear slide type sample rack
Extraction Volume	20-1000ul
Processing Time	Complete the processing of 96 samples within 60 minutes (related to reagents)
Magnetic Bead Recovery	≥98%
Temp Range	RT-105℃, Lysis and elution position
Temp Accuracy	0.1℃
Heating Method	Dry bath heating
Heating Speed	RT-100℃≤6min
Shaking Function	Up and down oscillation (1-5 gears adjustable)
Extraction Position	6 (96-well deep well plate)
Robotic Arm	A robotic arm for adding samples and reagents
Pipetting Channel	2 Channel
Liquid Detection	Pneumatic liquid level detection principle, intelligent detection of blocked needle
Pipetting Tip	50ul,200ul,1000ul, Disposable black conductive needle with filter element
Tip Amount	2-3 Tips/sample
Pipetting Accuracy	10ul, CV≤3.0%, Accuracy≤5.0%, 50ul Tip 50ul, CV≤2.0%, Accuracy≤2.0%, 1000ul Tip 100ul, CV≤1.5%, Accuracy≤2.0%, 1000ul Tip
Sample Volume	2-1000ul
Working Zone	2 PCR positions with cooling function; 6 Tip positions for three types of Tips 2 Reagent positions (5ml freezing tube rack position with cooling function, one reserved position)
Protective Function	Start up self-test, Power-off protection, High temperature alarm, Over-temperature protection, Tip removal protection
Disinfection Method Illumination Lamp	UV lamp (30W*1, 8W*1) 10W LED lamp
Audible Alarm	Yes (Red and blue blinking)
Safety Door Design	With safety lock function, the safety door is opened and the program is suspended
Display	10.1inch touch screen, Windows System
Scanning	Optional
Interface	LAN interface (Bi-direction LIS optional)
Contamination Control	Built-in air duct and HEPA filter can effectively filter internal aerosols and prevent cross-contamination
IAP Function	Firmware can be upgraded online at any time
Power Supply	110/220V,50/60Hz
External Size (W*D*H)	1420*850*1842mm
Package Size (WD*H)	1535*970*1180mm (Main instrument) 1540*970*1160mm(Base)
Gross Weight	360kg(Main instrument); 190kg(Base)

Nucleic Acid Extraction Kit (Magnetic BeadsMethod)

Application:

The magnetic beads and buffer system with unique separation effect can be used to extract high-purity viral DNA/RNA from samples quickly, highly sensitively and efficiently.

The extracted and purified nucleic acid can be used in various common downstream experiments such as restriction digestion, reverse transcription, PCR, RT-PCR, Southern blot, etc.

Method Advantage:

①. Safe and efficient ②. Less time requirement

Extraction process:

Add lyse- add magnetic bead- separate magnetic bead-washing- Separate magnetic

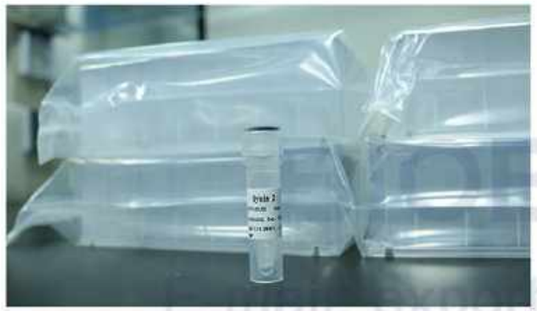
Product advantage:

①. High sensitivity: High-quality nucleic acid can be extracted after the positive samples are diluted by 10^4

②. Good repeatability: Good repeatability of extracting the same sample

Reagent For BNP32/48

Reagent For BK-HS32/AutoHS96



Reagent For BNP96

Reagent For BK-HS96

Parameters:

Name	Specification	Note Mark
Nucleic Acid Extraction Kit I	50T/Box	Manual
Nucleic Acid Extraction Kit II	32T/64T/96T/Box	Auto for BK-HS32
Nucleic Acid Extraction Kit III	96T/Box	Auto For BK-HS96
Nucleic Acid Extraction Kit IV	96T/Box	Auto for BNP96
Nucleic Acid Extraction Kit V	64T/Box	Auto for BNP-32&48
Nucleic Acid Extraction Kit VI	96T/Box	Auto for BK-AutoHS96

Nucleic Acid Extraction Kit (Magnetic Beads Method)

Blood Genomic DNA

Introduction:

Magnetic beads are used to adsorb DNA to achieve the purpose of rapid purification of whole blood genomic DNA. It is suitable for extracting high-purity genomic DNA from 200ul anticoagulated whole blood samples. The kit can be used with the magnetic bar method automatic nucleic acid extraction instrument for high-throughput extraction experiments, and can also be manually operated using a magnetic frame. The cleaning fluid system can maximize the removal of protein, pigment, lipid and other inhibitory impurities. The extracted genomic DNA has large fragments, high yield, good purity, and is stable and reliable.

Application:

Widely used in medical health, scientific research, biological industry, animal husbandry, etc.

Features:

①. High purity: effectively remove impurities such as protein and inorganic salts, and the product A260/280 value is greater than 1.7.

②. Good quality: with a unique buffer, it can release DNA better and improve the yield, and it also has little damage to genomic DNA, which can protect the integrity of DNA.

③. Automation: match BNP32, BNP48, BNP96 nucleic acid extractors to achieve high-throughput automated operation.

④. Safe and non-toxic: the reagent does not contain toxic solvents such as phenol and chloroform.

⑤. Wide range of applications: enzyme digestion, PCR, library construction, Southern hybridization, etc.

Parameters:

Model	CH-06-A	CH-06-B	CH-06-C	CH-06-D	CH-06-ME
Extraction Method	Magnetic bead method				
Sample Type	Human and other mammalian whole blood				
Validity Period	Good stability, valid for 12 months				
Sample Volume	200ul				
Within-assay Precision	Coefficient of variation (CV,%)≤15%				
Specification	8T/box, 16T/box, 32T/box, 64T/box	8T/box, 16T/box, 32T/box,64T/box	48T/box, 96T/box	48T/box, 96T/box	50T/box, 100T/box
Applicable Instruments	BNP32, BNP48	BNP32, BNP48	BNP96	BNP96	Manual Extraction
Method	One-step method: short extraction time	Two-step method: high nucleic acid yield	One-step method: short extraction time	Two-step method: high nucleic acid yield	Manual: No nucleic acid extractor required
Package Information	24 Boxes/Carton				
Package Size(W*D*H)	740*420*300mm				
Gross Weight	18.5kg				

Nucleic Acid Extraction Kit (Magnetic Beads Method)

Blood Spot Sample

Introduction:

This kit uses magnetic beads with unique separation function and a unique cleaning solution system to dry and purify high-quality genomic DNA from 3*3mm blood cards or blood spot samples. The uniquely embedded magnetic beads have a strong affinity for nucleic acids under certain conditions, and when the conditions change, the magnetic beads release the adsorbed nucleic acids, which can achieve the purpose of rapid separation and purification of nucleic acids. The whole process is safe and convenient, and the extracted genomic DNA has large fragments, high purity, stable and reliable quality, and is especially suitable for automated extraction of high-throughput workstations.

Application:

Widely used in scientific research, healthcare, newborn screening, bio-industry, etc.

Features:

①. High purity: effectively remove impurities such as protein and inorganic salts, and the product A260/280 value is greater than 1.7.

②. Good quality: with a unique buffer, it can release DNA better and improve the yield, and it also has little damage to genomic DNA, which can protect the integrity of DNA.

③. Automation: match BNP32, BNP48, BNP96 nucleic acid extractors to achieve high-throughput automated operation.

④. Safe and non-toxic: the reagent does not contain toxic solvents such as phenol and chloroform.

⑤. Wide range of applications: enzyme digestion, PCR, library construction, Southern hybridization, etc.

Parameters:

Model	CH-14-1	CH-14 -2	CH-14-3
Extraction Method	Magnetic bead method		
Sample Type	Fresh or dry blood spots		
Validity Period	Good stability, valid for 12 months		
Sample Volume	3 pieces of 3*3mm blood cards or blood spots		
Within-assay Precision	Coefficient of variation (CV,%)≤15%		
Specification	8T/box,16T/box, 32T/box, 64T/box	48T/box, 96T/box	50T/box, 100T/box
Applicable Instruments	BNP32, BNP48	BNP96	Manual Extraction
Package Information	24 Boxes/Carton		
Package Size(W*D*H)	740*420*300mm		
Gross Weight	18.5kg		

Nucleic Acid Extraction Kit (Magnetic Beads Method)

Animal Tissue DNA

Introduction:

This kit uses a magnetic bead and buffer system with unique separation function, which is fast, highly sensitive, and effectively isolates and purifies high-quality genomic DNA from animal tissue samples. Destroy the cell membrane with guanidine salt, polymer and proteinase K to release the nucleic acid in the buffer system, add special coated magnetic beads, the magnetic beads have a strong affinity for the target nucleic acid in the buffer system, and when the conditions change, The magnetic beads release the adsorbed nucleic acids, and the washing system can remove impurities such as proteins and small molecules in the solution, which can achieve the purpose of rapid separation and purification of nucleic acids without the use of toxic reagents such as chloroform.

Application:

Widely used in scientific research, animal husbandry, biological industry, food safety, etc.

Features:

①. High purity: effectively remove impurities such as protein and inorganic salts, and the product A260/280 value is greater than 1.7.

②. Good quality: with a unique buffer, it can release DNA better and improve the yield, and it also has little damage to genomic DNA, which can protect the integrity of DNA.

③. Automation: match BNP32, BNP48, BNP96 nucleic acid extractors to achieve high-throughput automated operation.

④. Safe and non-toxic: the reagent does not contain toxic solvents such as phenol and chloroform.

⑤. Wide range of applications: enzyme digestion, PCR, library construction, Southern hybridization, etc.

Parameters:

Model	CH-12-1	CH-12-2	CH-12-3
Extraction Method	Magnetic bead method		
Sample Type	Animal tissue sample		
Validity Period	Good stability, valid for 12 months		
Sample Volume	50mg		
Within-assay Precision	Coefficient of variation (CV,%)≤15%		
Specification	8T/box,16T/box, 32T/box, 64T/box	48T/box, 96T/box	50T/box, 100T/box
Applicable Instruments	BNP32, BNP48	BNP96	Manual Extraction
Package Information	24 Boxes/Carton		
Package Size(W*D*H)	740*420*300mm		
Gross Weight	18.5kg		

Nucleic Acid Extraction Kit (Magnetic Beads Method)

Plant Genomic DNA

Introduction:

Magnetic beads are used to adsorb DNA to achieve the purpose of rapid purification of plant genomic DNA. It is suitable for extracting genomic DNA from fresh and dry common plant samples or plant samples of polysaccharides and polyphenols. The kit can be used with a magnetic bar method automatic nucleic acid extraction instrument for high-throughput extraction experiments, or a magnetic frame for manual operation. It can maximize the removal of impurity proteins, plant polysaccharides, polyphenols and other organic compounds in plant cells. The extracted genomic DNA has large fragments, high yield, good purity, and is stable and reliable.

Application:

Widely used in scientific research, food safety, farming and breeding, customs quarantine, etc.

Features:

①. High purity: effectively remove impurities such as protein and inorganic salts, and the product A260/280 value is greater than 1.7.

②. Good quality: with a unique buffer, it can release DNA better and improve the yield, and it also has little damage to genomic DNA, which can protect the integrity of DNA.

③. Automation: match BNP32, BNP48, BNP96 nucleic acid extractors to achieve high-throughput automated operation.

④. Safe and non-toxic: the reagent does not contain toxic solvents such as phenol and chloroform.

⑤. Wide range of applications: enzyme digestion, PCR, library construction, Southern hybridization, etc.

Parameters:

Model	CH-11-1	CH-11-2	CH-11-3
Extraction Method	Magnetic bead method		
Sample Type	Fresh or dried plant tissue		
Validity Period	Good stability, valid for 12 months		
Sample Volume	50~100mg		
Within-assay Precision	Coefficient of variation (CV,%)≤15%		
Specification	8T/box,16T/box, 32T/box, 64T/box	48T/box, 96T/box	50T/box, 100T/box
Applicable Instruments	BNP32, BNP48	BNP96	Manual Extraction
Package Information	24 Boxes/Carton		
Package Size(W*D*H)	740*420*300mm		
Gross Weight	18.5kg		

Nucleic Acid Extraction Kit (Magnetic Beads Method)

Fungal Genomic DNA

Introduction:

The method of using magnetic beads to adsorb DNA achieves the purpose of rapidly purifying fungal genomic DNA, and is suitable for extracting high-purity genomic DNA from fungi. The kit can be used with a magnetic bar method automatic nucleic acid extraction instrument for high-throughput extraction experiments, or a magnetic frame for manual operation. The cleaning fluid system can maximize the removal of protein, pigment, lipid and other inhibitory impurities. The extracted genomic DNA has large fragments, high yield, good purity, and is stable and reliable.

Application:

Widely used in scientific research, food safety, agriculture and livestock industry, biological industry, etc.

Features:

①. High purity: effectively remove impurities such as protein and inorganic salts, and the product A260/280 value is greater than 1.7.

②. Good quality: with a unique buffer, it can release DNA better and improve the yield, and it also has little damage to genomic DNA, which can protect the integrity of DNA.

③. Automation: match BNP32, BNP48, BNP96 nucleic acid extractors to achieve high-throughput automated operation.

④. Safe and non-toxic: the reagent does not contain toxic solvents such as phenol and chloroform.

⑤. Wide range of applications: enzyme digestion, PCR, library construction, Southern hybridization, etc.

Parameters:

Model	CH-09-1	CH-09-2	CH-09-3
Extraction Method	Magnetic bead method		
Sample Type	Fungal liquid		
Validity Period	Good stability, valid for 12 months		
Sample Volume	50~100mg		
Within-assay Precision	Coefficient of variation (CV,%)≤15%		
Specification	8T/box,16T/box, 32T/box, 64T/box	48T/box, 96T/box	50T/box, 100T/box
Applicable Instruments	BNP32, BNP48	BNP96	Manual Extraction
Package Information	24 Boxes/Carton		
Package Size(W*D*H)	740*420*300mm		
Gross Weight	18.5kg		

Nucleic Acid Extraction Kit (Magnetic Beads Method)

Bacterial Genomic DNA

Introduction:

The method of adsorbing DNA by magnetic beads achieves the purpose of rapidly purifying bacterial genomic DNA, and is suitable for extracting high-purity genomic DNA from bacterial samples. The kit can be integrated with a magnetic bar method automatic nucleic acid extractor for high-throughput extraction experiments, or can be manually operated using a magnetic frame. The cleaning fluid system can maximize the removal of protein, pigment, lipid and other inhibitory impurities. The extracted genomic DNA has large fragments, high yield, good purity, and is stable and reliable.

Application:

Widely used in medical health, scientific research, biological industry, animal husbandry, etc.

Features:

①. High purity: effectively remove impurities such as protein and inorganic salts, and the product A260/280 value is greater than 1.7.

②. Good quality: with a unique buffer, it can release DNA better and improve the yield, and it also has little damage to genomic DNA, which can protect the integrity of DNA.

③. Automation: match BNP32, BNP48, BNP96 nucleic acid extractors to achieve high-throughput automated operation.

④. Safe and non-toxic: the reagent does not contain toxic solvents such as phenol and chloroform.

⑤. Wide range of applications: enzyme digestion, PCR, library construction, Southern hybridization, etc.

Parameters:

Model	CH-10-X-1	CH-10-X-2	CH-10-X-3	CH-10-YX-1	CH-10-YX-2	CH-10-YX-3
Extraction Method	Magnetic bead method					
Sample Type	Bacterial liquid					
Validity Period	Good stability, valid for 12 months					
Sample Volume	200~1000ul					
Within-assay Precision	Coefficient of variation (CV,%)≤15%					
Specification	8T/box, 16T/box, 32T/box, 64T/box	48T/box, 96T/box	50T/box, 100T/box	8T/box, 16T/box, 32T/box, 64T/box	48T/box, 96T/box	50T/box, 100T/box
Applicable Instruments	BNP32, BNP48	BNP96	Manual Extraction	BNP32, BNP48	BNP96	Manual Extraction
Test Subject	Gram-negative bacteria			Gram-positive bacteria		
Package Information	24 Boxes/Carton					
Package Size(W*D*H)	740*420*300mm					
Gross Weight	18.5kg					

Nucleic Acid Extraction Kit (Magnetic Beads Method)

Plasmid DNA

Introduction:

Plasmid nucleic acid extraction kit (magnetic bead method) adopts magnetic bead and buffer system with unique separation function, combines magnetic nano-separation technology with SDS alkaline lysis method of bacterial cells, releases nucleic acid in the buffer system, and under the effect of centrifugal force The next cell debris and SDS complexes settle down. Add special coated magnetic beads, the magnetic beads have a strong affinity for plasmid DNA in the buffer system, and when the conditions change, the magnetic beads release the adsorbed nucleic acids, and the washing system can remove impurities such as proteins and small molecules in the solution. , can achieve the purpose of rapid separation and purification of nucleic acid, and does not use toxic reagents such as chloroform.

Application:

Widely used in scientific research, hospital, biological industry, etc.

Features:

①. Simple and fast: Ultrapure plasmid DNA can be obtained in about 45 minutes.

②. High purity: effectively remove impurities such as protein and inorganic salts, and the product A260/280 value is greater than 1.7.

③. Good quality: with a unique buffer, it can release DNA better and improve the yield, and it also has little damage to genomic DNA, which can protect the integrity of DNA.

④. Automation: match BNP32, BNP48, BNP96 nucleic acid extractors to achieve high-throughput automated operation.

⑤. Safe and non-toxic: the reagent does not contain toxic solvents such as phenol and chloroform.

⑥. Wide range of applications: enzyme digestion, PCR, library construction, Southern hybridization, etc.

Parameters:

Model	CH-13-1	CH-13-2	CH-13-3
Extraction Method	Magnetic bead method		
Sample Type	Bacterial liquid		
Validity Period	Good stability, valid for 12 months		
Sample Volume	1~2ml		
Within-assay Precision	Coefficient of variation (CV,%)≤15%		
Specification	8T/box,16T/box, 32T/box, 64T/box	48T/box, 96T/box	50T/box, 100T/box
Applicable Instruments	BNP32, BNP48	BNP96	Manual Extraction
Package Information	24 Boxes/Carton		
Package Size(W*D*H)	740*420*300mm		
Gross Weight	18.5kg		

Gene Amplification Instrument TEC01

Introduction:

The gene amplification instrument is an instrument that performs nucleic acid amplification by polymerase chain reaction.
Mainly used in Medical institutions, clinical gene amplification testing laboratories that meet the requirements, scientific research institutes, universities, etc.

Features:

①. Reliable performance of heating and cooling elements, high-performance temperature control system.

②. High-performance digital signal processor for precise temperature control.

③. Excellent temperature uniformity.

④. Rapid heating and cooling.

⑤. 7-inch color touch panel, easy to operate.

⑥. Support large-capacity program storage.

Parameters:

Model	TEC01
Capacity	96
Reaction Volume	10~200ul
Tube Type	96*0.2ml PCR plate, 8*0.2ml PCR tube
Block Temperature Range	4℃~105℃
Heat Lid Temperature Range	30℃~110℃, When the set temperature is lower than 30°, the Heat Lid will be closed automatically
Display Resolution	±0.1℃
Temperature Accuracy	≤0.5℃
Temperature Uniformity	≤1℃
Block Material	Aluminum
Gradient Range	30~99℃
Temperature Differential Range	1~42℃
Program	A single program can be up to 30 steps, 99 cycles
Display	7" LCD
Power Supply	110V~220V, 50/60Hz
External Size(L*W*H)	398*280*257mm
Net Weight	11kg
Package Size(L*W*H)	495*380*380mm
Gross Weight	17kg

Fluorescent Quantitative PCR Detection System

Introduction:

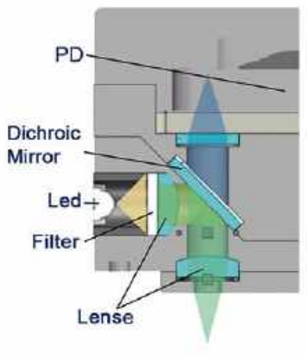
Real- time PCR is used for sensitive, specific detection and quantification of nucleic acid targets. We have developed powerful assay design algorithms, optimized qPCR regent, intuitive data analysis software, and flexible instrumentation to help harness the power of qPCR across a rich and diverse set of applications. Explore our robust solutions for your qPCR-based research.

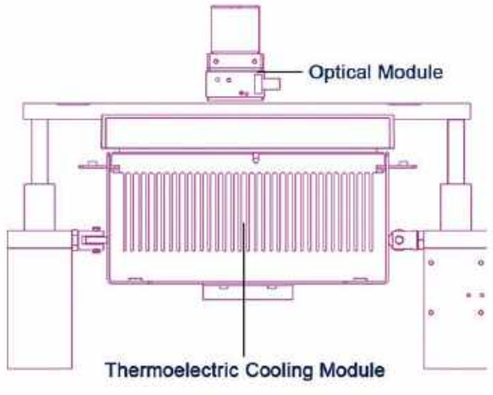
Application:

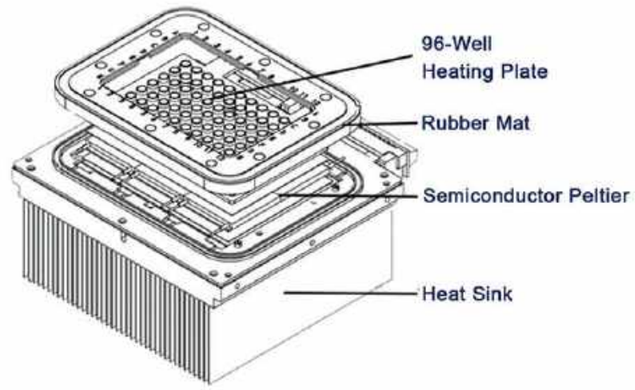
It can be widely used for Infectious disease research, Food pathogen detection, Waterborne pathogen detection, Pharmaceutical analytics, Stem cell research, Pharmacogenomics research, Oncology and genetic disease research, Plant sciences and agricultural biotechnology.

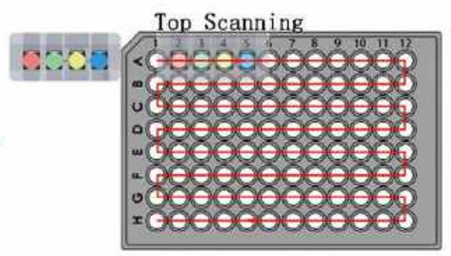
Working Principle:

The temperature step change is controlled by the semiconductor peltier to realize PCR amplification. Use high-sensitivity PD unit to detect fluorescence; Program control channel switching, non-contact excitation/detection on the top structure, coordinated with motor control x and Y axis movement to achieve 96-hole scanning. Finally, accurate analysis is carried out through powerful software.



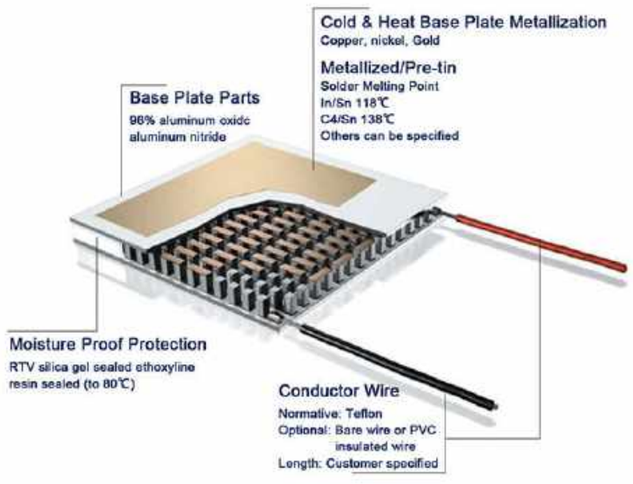






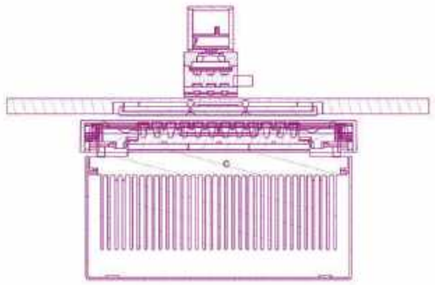
Features:

* Excellent temperature control performance of the instrument, Module Max heating rateheating rate 7.0℃/s.
* No edge effect, no optical path correction, top excitation/detection, non-contact measurement.
* Fluorescence detection adopts PD sensor with high sensitivity.
* Long-life LED light source, stable emission wavelength, maintenance-free.
* 4/6-channel fluorescence detection, no cross interference between channels.
* User-friendly and fully functional software, flexible program setting, comprehensive analysis and reporting functions, all the parameters can be stored.



Real-time PCR Hardware:

Thermoelectric cooling module (TEM) is a semiconductor device composed of many tiny and effective heat pumps. By applying a low-voltage DC power supply, heat will be transferred from one side of the TEM to the other side, resulting in a phenomenon that one side of the TEM becomes hot and the other side becomes cold. Since this phenomenon is completely reversible, when the polarity of the DC power supply is changed, it will be affected. Shift in the opposite direction. This product adopts a long-life series TEM, which provides longer life and more efficiency during thermal cycling.

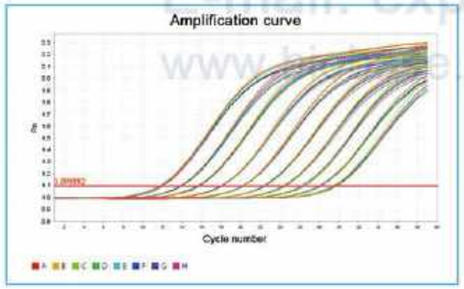


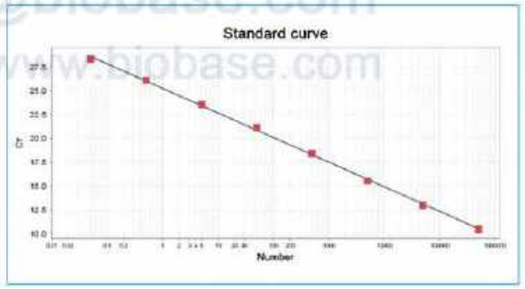
The integrated design of the scanning module and the heating cover module, relying on its own gravity to compress the heating plate and the reagent cover, and is supported by four compression springs to prevent the sample tube from being crushed; at the same time, the rubber pad around the heating cover is pressed to ensure that there is no external light source interference in the detection ; The bottom of the cam mechanism is used to support the spacing to ensure the smooth sliding of the heating module; the guide rail mechanism on both sides of the heating module prevents the module from shifting and ensures the accuracy of the mechanical scanning structure.

Real-time PCR Software:

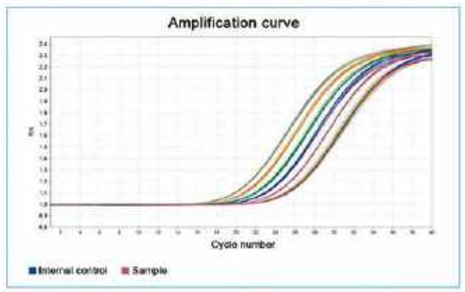
The software includes functions such as absolute quantification experiment, melting curve experiment, relative quantification (AACT) experiment, and genotyping experiment. Enter the attribute setting interface and select different function modules. Guided flow operation, convenient for users to quickly complete experimental settings. The software can open the recent experiment record template for easy viewing of recent experiments and the creation of new experiments.

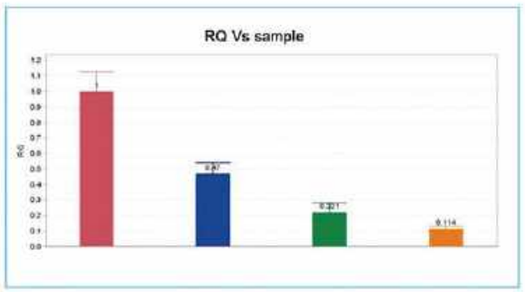
Absolute Quantification Experiment:



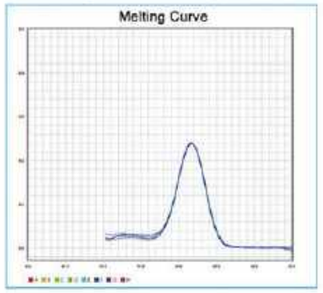


Relative Quantification (AACT) Experiment:

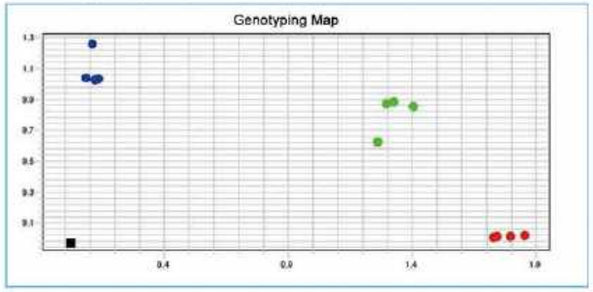




Melting Curve Experiment:



Genotyping Experiment:



Parameters:

Model	LEIA-X4			
Sample Capacity	96*0.1ml PCR plate, 12*8-strip tubes, 96*0.1ml single tube (Transparent Cover)			
Reaction System	10~50μl			
Dynamics Range	1-10^{10}copies			
Channel	4			
Emission Light	LED			
Detector	MPPC			
Detection Path	F1	F2	F3	F4
Suitable Probe/Dye	FAM/SYBR GREEN	VIC/JOE/ HEX/TET	ROX/TEXAS-RED	Cy5
Excitation Wavelength	455~680nm			
Detection Wavelength	510~730nm			
Fluorescence Detection Repeatability	CV≤2%			
Fluorescence Detection Accuracy	CV≤3%			
Fluorescence Detection Linearity	r≥0.995			
Module Temp. Range	4-99℃(resolution:0.1℃)			
Ramp Rate	5.0℃/s(max)			
Temp. Accuracy	±0.3℃			
Temp. Uniformity	≤ ±0.3℃			
Temp. Control Mode	Block mode			
Gradient Temp. Range	1-36℃			
Hot-Lid Temp. Range	100℃, Automatic Hot-lid			
Scanning Mode	Full plate scanning			
Programming	Max 100 Segments for Each Program, Max 99 Cycles			
Operation Mode	Continuous			
Scanning Time	8.5s			
Special Function	Absolute quantitative automatic analysis, relative quantification, SNP Analysis, melting curve analysis, etc.			
Operation System	Microsoft: Windows10			
Power Supply	220V,50/60HZ; 110V,60HZ			
Dimension(L*W*H) Mm	375*490 *365			
Port Method	USB Port			
Packing Size(L*W*H) Mm	645*565 *605			
Gross Weight	45			

Monkeypox Virus (MPV) Nucleic Acid Detection Kit (PCR-Fluorescence Probe Method)

Application:

It is applied to the monitoring and auxiliary diagnosis of monkeypox virus. The application scenarios mainly include hospitals, CDC, scientific research institutions, and third-party medical testing laboratories recognized by health administrative agencies.
(Not Available in the U.S)

Introduction:

Monkeypox is a zoonotic disease caused by the monkeypox virus, which can be transmitted from animals to humans as well as from human to human. Monkeypox symptoms often include fever, severe headache, muscle aches, swollen lymph nodes, skin lesions, and more. According to the World Health Organization, more than 50 countries and regions around the world have reported confirmed cases of monkeypox. There is currently no cure for monkeypox, and the World Health Organization urges countries to strengthen surveillance and testing of the infectious disease.
This product is based on real-time fluorescent PCR technology, selects the highly conserved region of the monkeypox virus gene coding region as the target region, designs specific primers and fluorescent probes for PCR amplification, and performs PCR amplification on patient serum and lesion leaching fluid (vesicular fluid, pustule fluid) Qualitative detection of monkeypox virus DNA in It is suitable for auxiliary diagnosis of related diseases caused by monkeypox virus infection.

Features:

Internal Control: the kit contains Internal Control, which is involved in nucleic acid extraction and PCR detection to avoid false negative results
Control: Both negative and positive control in the kit need to be extracted for environmental monitoring and quality control of PCR detection reagents
High Sensitivity: The detection limitation is 200 copies/ml
High Specificity: No cross reaction with other pathogens
Fast Speed: Nucleic acid extraction completed within 10 minutes, and the PCR amplification time is less than 1 hour
Certificate: CE declaration of conformity

Parameters:

Product Name	Monkeypox Virus (MPV) Nucleic Acid Detection Kit (PCR-Fluorescence Probe Method)
Detection Principle	Fluorescence PCR
Detection Target	Monkeypox Virus F3L gene
Sample Types	Serum or lesion exudate samples
Applicable Instruments	ABI7500、LEIA-X4、FQD-96A, etc
Storage	-20±5℃
Valid Period	12 Months
Reaction Volume	25ul
Detection Time	<60 min
Detection Limit	200 copies/ml
Packing Specification	24T/box or 48T/box or 96T/box; 90 boxes/carton
Packet Size (L*W*H)	500*500*500mm
Gross Weight	24kg(24T/box); 25.5kg(48T/box); 28kg(96T/box)

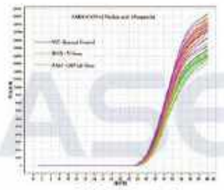
Novel Coronavirus (2019-nCoV) Nucleic Acid Detection Kit (Fluorescence PCR)

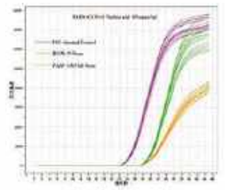
Advantage:

① Internal control: Human β-Globin gene as the internal control is included into the reagent to verify the validity of the experiment.
② High sensitivity: The lowest detection limit is 500 copies/ml.
③ High specificity: Primers and probes are designed for specific fragments of two gene regions, which confirm each other to make the results more accurate. No cross-reactivity with other pathogens with the same site of infection or similar infection characteristics.
④ Strong stability: CV of each channel is all <3%.
⑤ Multiple Real-time RT-PCR detection: Each channel does not interfere with each other, and the amplification curve is S-shaped.
⑥ Simple operation: one-step method to complete RT-PCR, The whole procedure can be detected within 80min.
⑦ Fast speed: The PCR amplification time is less than 80 minutes.

Experimental Data:

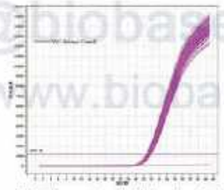
1.**Repeatability experiment:**
2019-nCoV nucleic acid samples at the concentration of 5*106copies/mL and 5*105copies/mL were tested by the 2019-nCoV RT-qPCR detection kit to verify the stability of the detection kit. The results are as follows:

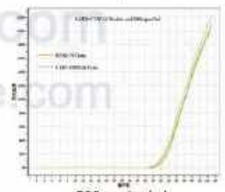

5*10⁶ copies/mL


5*10⁵ copies/mL

2.**Repeatability experiment of internal control:**
Repeat 96 times for the same negative sample on the BNP96 nucleic acid extraction system, and tested by the 2019-nCoV RT-qPCR detection kit to verify the stability of the internal control, The results are as follows:

3.**Repeatability experiment of lower limit:**
2019-nCoV nucleic acid samples at the concentration of 500 copies/mL were tested by the 2019-nCoV RT-qPCR detection kit to verify the stability of the lower limit.
The results are as follows:


Stability experiment of internal control


500 copies/mL

Parameters:

Product Name	Novel Coronavirus (2019-nCoV) Nucleic Acid Detection Kit (Fluorescence PCR)
Detection Principle	Fluorescence PCR
Detection Target	Novel coronavirus (2019-Ncov) ORF1ab and N gene
Applicable Instrument	Fluorescence quantitative PCR instrument
Storage Conditions	-20±5℃, keep away from light
Valid Period	Unopened ≥6 months; Opened≥90 days
Sample Volume	7ul
Reaction Volume	20ul
Detection Limit	500 copies/ml
Stability	CV <3%
Interpretation of Positive Results	CT≤38
Packing Specification	48T/box; 60 boxes/carton
Packet Size	500*500*500mm
Gross Weight	23kg

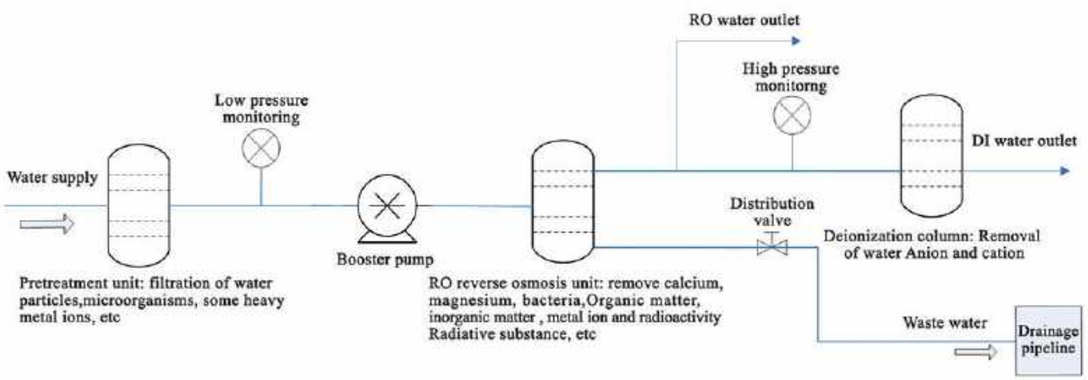
* Not Available in the U.S

Water Purifier (RO & DI water)
SCSJ-I-10L/SCSJ-II-30L

SCSJ-I-10L

SCSJ-II-30L

Purifying Procedure (SCSJ-I-10L):



Parameters:

Model	SCSJ-I-10L	SCSJ-II-30L
Water Output Type	RO & DI water	
Water Output Speed	10L/H	30L/H
Purifying Procedure	PF+AC+RO+DI	
Water Supply Requirement	Tap water: TDS<200ppm, 5~45°C, 1.0~3.5Kgf/cm2	
Pre-treatment	10 PP filter*1+10"Activated carbon *2	10"PP filter*1+10"active carbon filter*1
RO Unit	50 GPD RO membrane*1	300 GPD RO membrane*1
Subsequent Unit	Deionization purification column*2	Deionization purification column*1
Pure Water Quality	Soluble organic matter: Rejection rate>99% (molecular weight>100)	
	Particle: Rejection rate>99%	
	Microbe: Rejection rate>99%	
	Salt rejection rate: >99%	
	TDS (total solids solubility): RO water: 5~20 ppm	
	Resistivity: 10-18.25MΩ.cm	
	PM (particulate matter) (>0.22μm): <1/ml	
	Conductivity: 0.055-0.1us/cm	
	Microbe/Germ: <1 CFU/ml	
Water Quality Monitor	TDS (Total Dissolved Solids) meter	Electrical conductivity tester
Consumption	46W	113W
Power Supply	AC220V±10%, 50/60Hz; 110V±10%, 60Hz	
Standard Configuration	Main body (Include 1 set of cartridges)+TDS meter	
External Size (W*D*H)	390*400*503mm	325*403*650mm
Package Size (W*D*H)	500*520*650mm	460*420*1200mm & 670*400*260mm
Gross Weight	27kg	40kg