BioLAB

PRODUCT CATALOG

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM

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AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM BEM2BK1 BEM2BK2

NUCLEIC ACID EXTRACTOR

Both this model system is a fully-automated clinical nucleic acid extraction system that brings you walk-away automation, designed to minimize user intervention and extraction-to-extraction variability. In addition to providing quality purified eluates, the system offers onboard primary-sample handling and mixed-batch sampling for up to 32 or 48 samples per run.

1. 7-inch touch screen, easy to use, fast response
2. User-defined cracking and elution temperature
3. UV disinfection function, 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.

SPECIFICATIONS

Model	BEM2BK1	BEM2BK2
Old Model	BNPS-206	BNPS-207
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 third gears are adjustable, and the fluctuation range can be adjusted with the reagent volume	
Reagent Type	Magnetic bead open platform	
Extraction Time	8~60min/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 t run after the safety door closed	
Built-in Air Duct	Yes	
Ultraviolet Irradiation	Yes	
Packing Size(W*D*H)mm	580*510*700	700*520*750
Gross Weight(kg)	51	80
Alt Name	Nucleic Acid Extractor	

FEATURES

1. 7-inch touch screen, easy to use, fast response
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3. UV disinfection function, time range 1min~24hour
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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.

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM BEM2BS1

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM

It 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.

SPECIFICATIONS

Model	BEM2BS1
Old Model	BNPS-202
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℃

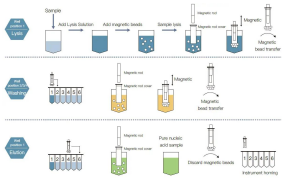
Oscillating Mixing	Vertical mixing, low, medium, high three gears adjustable
Module Station	2
Protection Function	Start up self-checking, power off protection, high temperature alarm, over temperature protection, motor protection
Disinfection Method	8W UV lamp
Illuminating Lamp	3.4W LED lamp
Operation Interface	10.1 inch capacitive touch screen, Windows system
Barcode Scanning Function	Optional external barcode scanner
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)	460*470*480mm
Package Size(W*D*H)	538*538*750mm
Gross Weight	37kg
Alt Name	Automatic Nucleic Acid Extraction System

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM BFA1L1

AUTOMATIC NUCLEIC ACID EXTRACTOR

This product is a fully automatic nucleic acid extraction equipment, which relies on a precise transmission mechanism and an intelligent and efficient controller to complete the magnetic separation process in the nucleic acid purification process.

Nucleic acid extraction process



Fast extraction, short operation time, 30~60 minutes/time
Small size, light weight, low noise, fully enclosed working area.
32 samples can be extracted at the same time, the experiment efficiency is greatly increased.
By improving the thermal conductivity and the temperature uniformity of the heated part, make the temperature control more accurate.
Powerful program programming function, flexible and efficient definition of application
High precision, high yield, according to the reagent optimization purification plan, with incubation, to achieve higher extraction efficiency
The extracted DNA/RNA can be directly used in PCR/RT-PCR experiments.
With power-off protection function, you can choose whether to continue running t

SPECIFICATIONS

Model	BFA1L1
Old Model	BNPS-208
Processing volume	50-1000ul
Sample throughput	1~32
Magnetic bead recovery efficiency	>98%
Board type	96-well deep well plate
Magnetic bar	32 fixed
Heating temperature	Lysis/elution temperature: R.T. ~120°C
Shaking mixing	Multi-mode and multi-speed adjustable
Internal procedures	Can store >5000 groups of programs
Magnetic bead size	≥100nm
UV lamp	Yes
Operating time	15-30 minutes/time
Power	500W
Power adapter	100~120V/7.6A 200~240V/4.4A, 50/60Hz
Fuse	100~120V/10A, 200~240V/6A
Dimensions	W.386xD.439xH.447mm
Net weight	36kgs
Alt Name	Automatic nucleic acid extractor

FEATURES

Fast extraction, short operation time, 30~60 minutes/time
Small size, light weight, low noise, fully enclosed working area.
32 samples can be extracted at the same time, the experiment efficiency is greatly increased.
By improving the thermal conductivity and the temperature uniformity of the heated part, make the temperature control more accurate.
Powerful program programming function, flexible and efficient definition of application
High precision, high yield, according to the reagent optimization purification plan, with incubation, to achieve higher extraction efficiency
The extracted DNA/RNA can be directly used in PCR/RT-PCR experiments.
With power-off protection function, you can choose whether to continue running the program after an unexpected power-off.

Operation Interface

Setting Interface

File selection Interface

Editing Interface

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM BEM2BJ1

AUTO NUCLEIC ACID EXTRACTION SYSTEM

Automatic nucleic acid extraction and purification system for the extraction of DNA or RNA from a variety of materials, such as whole blood, tissue, throat swab, etc., without centrifugation or filtration operation.

1. High purity extraction, easy to operate and fully automated.
2. High throughput, can process 1~96 samples at a time, save time.
3. With a professional extraction kit, extraction process optimization.
4. Large program capacity, can store 1~100 groups of programs.
5. With constant temperature function to ensure the best reaction temperature in the purification process.
6. Friendly operation interface, easy to understand, no external computer, no special training.
7. Compact appearance, solid material, long design life.

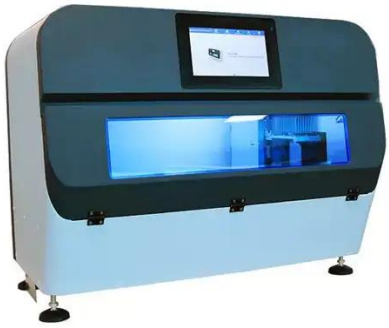
SPECIFICATIONS

Model	BEM2BJ1
Old Model	BNPS-201
Sample Capacity Screen	10.1-inch touch screen
Sample Volume	60μl~1000μl
Sample Capacity	1~96
Magnetic Bead Recovery	>98%
Extraction Time	Depending on the reagents
Extracting the Difference Between Holes	CV≤3%
Consumption	500W
Operating Temperature	RT-120℃
Product Purity A260/A280	DNA>1.7~2.0; RNA>1.8~2.1
Shock Mixing	Adjustable speed
Reagent Type	Open system for magnetic bead method
Program Storage	48 groups
Safety Door Design	Safety door opened, the program operation will be automatically suspended, avoid cross-contamination
Disinfection Method	UV light, aerosol adsorption
Power Supply	AC100V~240V, 50Hz/60Hz
External Size(W*D*H)	770*530*540mm
Package Size(W*D*H)	910*670*780mm
Gross Weight	95kg
Alt Name	Auto Nucleic Acid Extraction System

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM BEM2BR1

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM

It 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.



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 shocking and heating, which can be mixed with shock 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.

SPECIFICATIONS

Model	BEM2BR1
Old Model	BNPS-204
Nucleic Acid Extraction Method	Paramagnetic particle method
Sample Capacity	96-well
Sample Volume	20~1000μl
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
Alt Name	Automatic Nucleic Acid Extraction System

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM BEM2BQ1

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM

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.

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

SPECIFICATIONS

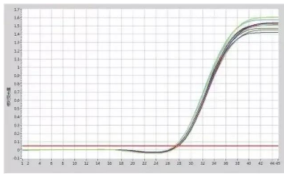
Model	BEM2BQ1
Extraction Method	Magnetic bead method
Working Mode	Automatic sampling + Nucleic acid extraction + PCR reaction system addition
Throughput	1~96, linear slide type sample rack
Extraction Volume	20~1000μl
Processing Time	Complete processing of 96 samples within 60 minutes (Related to reagents)
Magnetic Bead Recovery	≥98%
Temp Range	RT~105°C, lysis and elution position
Temp Accuracy	0.1°C
Heating Method	Dry bath heating
Heating Speed	RT~100°C ≤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 channels
Liquid Detection	Pneumatic liquid level detection principle, intelligent detection of blocked needle
Pipetting Tip	50μl, 200μl,1000μl, disposable black conductive needle with filter element
Tip Amount	2~3 tips/sample
Pipetting Accuracy - 10μl tip	10μl, CV≤3.0%, Accuracy≤5.0%
Pipetting Accuracy - 50μl tip	50μl, CV≤2.0%, Accuracy≤2.0%
Pipetting Accuracy - 100μl tip	100μl, CV≤1.5%, Accuracy≤2.0%
Sample Volume	2~1000μl
Working Zone	2 PCR positions with cooling function; 6 tip positions; 2 reagent positions
Protective Function	Start up self-test, Power-off protection, High temp alarm, Over-temp protection, Tip removal protection
Disinfection Method	UV lamp(30W*1, 8W*1)
Illumination Lamp	10W LED lamp

Audible Alarm	Yes (Red and blue blinking)
Safety Door Design	With safety lock function, program suspended if door opened
Display	10.1 inch touch screen, Windows system
Scanning	Optional
Interface	LAN interface (Bi-direction LIS optional)
Contamination Control	Built-in air duct and HEPA filter
IAP Function	Firmware can be upgraded online
Power Supply	110/220V, 50/60Hz
External Size(W*D*H)	1420*850*1842mm
Package Size(W*D*H)	Main Instrument: 1535*970*1180, Base: 1540*970*1160
Gross Weight	Main Instrument: 360kg, Base: 190kg
Alt Name	Automatic Nucleic Acid Extraction System

FEATURES

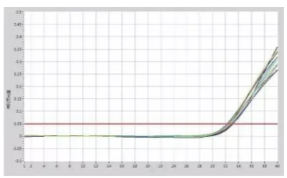
1. Accurate pipetting, air pressure correction can adapt to extreme environments such as flat ground, plateau, island, etc., to ensure the accuracy of pipetting
2. 96 samples can be processed within 60 minutes, realizing high-throughput processing of samples, saving time and effort
3. Reagent position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

Product Performance:



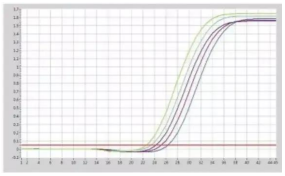
Precision

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



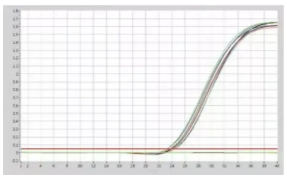
Sensitivity

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.

Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com