



AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM

AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM

Nucleic Acid Extraction System is important tool in molecular biology. The instruments are well suited for improving sample throughput and minimizing labor intensive manual tasks, like pipetting and dispensing. Systems typically also include functions such as shaking, temperature control, and PCR protocols.

Used in DNA and RNA Purification, Cultured Cells, Bacteria, Tissues, Cell-Free Body Fluids, Plant Samples, Blotting, PCR, Cloning, Medical Sciences.

Also known as Nucleic acid Extractor.

BNPS-201 AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM



High purity extraction, easy to operate and fully automated

High throughput, can process 1-96 samples at a time, save time

With professional extraction kit, extraction process optimization

Large program capacity, can store 1-100 groups of programs

With constant temperature function to ensure the best reaction temperature in the purification process

Friendly operation interface, easy to understand, no external computer, no special training

Compact appearance, solid material, long design life

SPECIFICATIONS

Model	BNPS-201
Sample Capacity Screen	10.1 inch touch
Sample Volume	20μl-1000μl
Sample Capacity	1-96
Magnetic Bead Recovery	> 98%
Extraction Time	Depending on the reagents
Extracting the Difference Between Holes	CV<3%
Operating Temperature	RT - 120°C
Product Purity A260/A280	DNA> 1.7-2.0; RNA> 1.8-2.1
Shock Mixing	Adjustable Speed (1-3)
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
External Size	770x530x540 mm
Package Size	910x670x780 mm
Gross Weight	95 kg
Consumption	500 W
Power Supply	AC100V-240V 50Hz/60Hz

BNPS-202 AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM



Friendly user interface: Smart & Intelligent display

With 10.1 inch LCD touch screen, Windows operating system

Zero Aerosol Contamination High efficiency HEPA filter and Auto safety door protection function, safety door protection function, HEPA filter and UV lamp replacement HEPA filter and UV lamp replacement alarm functions

UV Sterilization Lamp

With manual or set automatic opening time UV lamp

sterilizing the operation area easily and effectively

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

SPECIFICATIONS

Model	BNPS-202
Extraction Method	Magnetic Bead
Sample Capacity	32
Processing Volume	20-1000 μ L
Extraction Time	15min-60min
Magnetic Bead Recovery	$\geq 98\%$
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-checking, power off protection, high temperature alarm, over temperature protection, motor protection
Disinfection Method	8W UV Lamp
Illuminating Lamp	3.4 W 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
External Size	450x440x532 mm
Package Size	538x538x750 mm
Gross Weight (kg)	37 kg
Power Supply	AC100-240V 50Hz/60Hz

BNPS-203 AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM



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°C

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

SPECIFICATIONS

Model	BNPS-203
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	20-1000 ul
Processing Time	Complete the 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 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	2-1000 ul
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	UV lamp (30Wx1, 8xw1)
Illumination Lamp	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
External Size	1420x850x1842 mm
Package Size	1535x970x1180 mm (Main instrument) 1540x970x1160 mm(Base)
Gross Weight	360kg(Main instrument) 190kg(Base)

BNPS-204 AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM



Display: 10.1 inch touch screen, easy to operate

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.

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

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

SPECIFICATIONS

Model	BNPS-204
Nucleic Acid Extraction Method	Paramagnetic particle method
Sample Capacity	96-well
Sample Volume	20-1000 μ l
Extraction Time	11min-60min
Magnetic Bead Recovery	$\geq 98\%$
Magnetic Flux of Bar	≥ 4500 Gs
Operating Temperature	RT-105°C
Shock Function	Yes
Temperature Accuracy	0.1°C
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
Package Size	940x710x910 mm
Gross Weight	110 kg
Power Supply	AC100-240V 50Hz/60Hz

BNPS-205 AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM



The instrument has a power-on self-test function to minimize the possibility of sample loss during the use of the instrument

Adopting a modular structure, the core components are all independently designed, with higher efficiency and lower failure rate, ensuring better stability during the operation of the instrument

Program visualization, precise control, simple operation, easy to use

According to user needs, the program can be freely edited

Suitable for a variety of nucleic acid methods based on biological nanomagnetic beads

Equipped with dual-channel HEPA filter system, easy to replace

Adopt large volume fan, strong ventilation

The operation area is reduced, and the experimental operation is fast

SPECIFICATIONS

Model	BNPS-205
Screen	10.1 inches touch screen
Sample Volume	Working volume:60-1000ul; adding sample volume:20-500ul
Sample Capacity	1-96
Magnetic Bead Recovery	≥98%
Extraction Time	Depending on the reagents
Extraction Hole Deviation	CV<3%
Heating Temperature	RT-120℃
Product Purity	DNA≥1.7-2.0; RNA≥1.8-2.1
Shaking Mode	Multi-gear adjustable
Reagent Type	Open System for Magnetic Bead Method
Program Storage	48 groups
Safety Door Design	Automatically suspend the program operation after the safety door is opened, and continue to run the program after the safety door is closed to avoid cross-contamination
Disinfection Method	UV light
Packing Size	910x670x780 mm
Gross Weight	86 kg
Power	500 W
Power Supply	100-240V 50/60Hz

200 AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM



7-inch touch screen, easy to use, fast response
 User-defined cracking and elution temperature
 UV disinfection function, time range 1min-24hour
 Automatic control system, no need connect to computer
 Free programming to meet the needs of different reagent
 Open system, fully automatic, stable results and good repeatability
 Extract rapidly 9-40 minutes , 32/48 samples can be extracted at the same time

SPECIFICATIONS

Model	BNPS-206	BNPS-207
Sample Quantity	32	48
Processing Volume	60μL-1000μL	
Sample Volume	20-500 μL	
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	8-60 min/round (depending on the reagent used)	
Internal Program	48 groups	5000 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	580x510x700 mm	700x520x750 mm
Gross Weight(kg)	51 kg	80 kg



BNPS-206



BNPS-207

BNPS-208 AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM



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

SPECIFICATIONS

Model	BNPS-208
Sample Quantity	1 ~ 32
Processing Volume	50 ~ 1000 ul
Board type	96-well deep well plate
Magnetic bar	32 fixed
Magnetic bead recovery efficiency	> 98 %
Shaking mixing	Multi-mode and multi-speed adjustable
Heating Temperature	Lysis/elution temperature: R.T. ~ 120 °C
Operating time	15 ~ 30 minutes/time
Magnetic bead size	≥100nm
UV lamp	Yes
Internal Program	> 5000 groups
Fuse	100-120 V/10 A, 200-240 V/6 A
Dimension	W.386 × D.439 × H.447 mm
Net weight	36 kg
Power	500 W
Power adapter	100-120 V/7.6 A 200-240 V/4.4 A, 50/60 Hz



Biolab Scientific Ltd.

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada

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