



AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM BNPS-203

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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-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 |

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|-----------------------|--|
| 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) |



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