

# AUTOMATIC NUCLEIC ACID EXTRACTION SYSTEM NPS14-1000



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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.

## NPS14-1000 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	NPS14-1000
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)

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