

# NUCLEIC ACID PURIFICATION SYSTEM



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Nucleic Acid Purification System utilises the proven magnetic-particle technology to extract highly purified nucleic acid from a wide range of sample types relevant for molecular diagnostics, genetic identity testing, forensic testing, biomedical research and gene expression analysis. The combination of easy-to-use instruments, with pre-loaded protocols selection and magnetic particle-based sample preparation kits filled with unique special reagent ensures the rapid nucleic acid extraction and highly purified products.

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

Also known as Laboratory Nucleic Acid Purification System.

## NPS11-1500 NUCLEIC ACID PURIFICATION SYSTEM

Easy Operation-unique remote control pad saving time and improve your work efficiency.

Flexible solution-pre-loaded portocols selection for up to 15, 32 or 48 samples per run.

Fast startup and immediate results-with special rapid reagents, the extraction can be done within 10 minutes.

Reliable result you can depend on-high-quality nucleic acid ready to use in sensitive downstream applications.



### SPECIFICATIONS

Model	NPS11-1500
Processing Volume	30 -1500 $\mu$ l, 30-1000 $\mu$ l
Capacity	15,32,48 samples per run customized
Collection Efficiency of the magnetic particles	$\geq$ 95%
Heating Temperature For Cell Lysis	Room temperature to 120°C
Heating Temperature for Nucleic Acid Elution	Room temperature to 120°C
Processing Mode	Multi-mode, multi-speed available
Reagents	Reagents suitable for Magnetic Particle Method
Operation Interface	English Language Operating System, Touch-control Operation
Storage Capacity	15 preinstalled protocols in main unit, unlimited in pad
Protocol Management	Create, edit, delete, protocol mode
Pollution Control	UV light
Computer Interface	USB
Network Communication	Ethernet(optional)
Dimensions(WxLxH)	440×435×445 mm
Weight	31.5 kg
Power Requirements	C110 $\pm$ 10%/230V $\pm$ 10%, 50Hz/60H $\pm$ 1 Hz, 600 W
Temperatures allowed during operation	10-40°C
Relative humidity allowed during operation	<80%

# NPS12 NUCLEIC ACID PURIFICATION SYSTEM

It is easy to use with 7-inch touchscreen.

Very simple operation (easy to install, operate, maintain) without computer.

Very fast extraction protocol, 15~40 minutes/cycle depending on sample type and method.

Universal built-in program for easy using.

High purity and excellent yield of nucleic acid.

UV lamp to avoid cross-contamination.

3 shortcut key to make for easy running, stopping the magnetic beads program.

Open system can optimize purification proposal according to various magnetic beads kits.

Drawer design to prevent possible injuries.

With special plastic consumables to avoid cross-contamination.

Improves workflow, and allows staff to perform other value-added tasks.

Ensures impurities are removed; improved sample quality leads to better downstream analyses.

Capable of extracting 1~20 samples or 1~32samples per run and process samples up to 1ml, 3ml, and 5ml.

Alarm for indicating the completion of purification.

Pause function for emergent stop.



## SPECIFICATIONS

Model	NPS12-1000	NPS12-3000
Storage Capacity	more than 100 programs	
Protocol Management	Create, edit, delete, protocol mode	
Pollution Control	UV light	
Dimensions(WxLxH)	400x470x450 mm	400x520x450 mm
Weight	25 kg	28 kg
Throughput	1~32	1~20
Process Volume	50~1000 ul	50~3000ul
Collection Efficiency	>95%	
Magnetic Rod Number	32	20
Purification Accuracy	100 copy sample positive rate>95%	
Stability	CV<5%	
Plate Types	96 deep well plate	3 ml tube strip
Heating for lysis tube	Ambient temperature~120°C	
Heating for elution tube	Ambient temperature~120°C	
Operation	7-inch color touchscreen	
Extraction Steps	Lysis, Sample Binding, Washing and Elution	
Lighting	Yes	
Extension Interface	4 standard USB port, built-in SD card	
Exhaust	Fan	
Power Supply	450 W	

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	For Models
LS52778	96-Deepwell plate		NPS12-1000
LS52791	Magnetic rod's tip		NPS12-1000
LS52804	Tube strips		NPS12-3000
LS52817	Magnetic rod's tip		NPS12-3000



NPS12-1000



NPS12-3000

## NPS12-5000 NUCLEIC ACID PURIFICATION SYSTEM

Easily to use with 7-inch touchscreen.

Very simple operation (easy to install, operate, maintain) without computer.

Very fast extraction protocol, 15~40 minutes/cycle depending on sample type and method.

Universal built-in program for easy using and high purity and excellent yield of nucleic acid.

UV lamp to avoid cross-contamination.

Open system can optimize purification proposal according to various magnetic beads kits.

Drawer design to prevent possible injuries.

Capable of extracting 1~20 samples or 1~32samples per run, and process samples up to 1ml, 3ml and 5ml.

Patented design for 5ml tubes strip.

Process samples up to 5ml and Max sample volume 2ml.

Patented design for line-mixing the sample, it is good for cell-free fetal DNA and next-generation sequencing.

Technology and non-invasive prenatal diagnosis.



## SPECIFICATIONS

Model	NPS12-5000
Storage Capacity	more than 100 programs
Protocol Management	Create, edit, delete, protocol mode
Pollution Control	UV light
Dimensions(WxLxH)	400x520x450 mm
Weight	28 kg
Throughput	1~20
Process Volume	50~5000ul
Collection Efficiency	>95%
Magnetic Rod Number	20

Purification Accuracy	100 copy sample positive rate>95%
Stability	CV<5%
Plate Types	5 ml tube strip
Heating for lysis tube	Ambient temperature~120°C
Heating for elution tube	Ambient temperature~120°C
Operation	7-inch color touchscreen
Extraction Steps	Lysis, Sample Binding, Washing and Elution
Lighting	Yes
Extension Interface	4 standard USB port, built-in SD card
Exhaust	Fan
Power Supply	450 W

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description
LS52817	Magnetic rod's tip	
LS52830	Tube strips	



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