

DP-NE30

Automatic Nucleic Acid Extractor

Processing volume	20uL-1000ul
Sample number	1-32
Magnetic bead recovery rate	≥95%
Type of the plate	96-well deep-well plate
Extraction sensitivity	10 ² copy/ml the positive detecting rate of sample>95%
Repeatability	CV≤10%
Magnetic bar	32
Heating temperature	Optional heating modules: lysis heating module (room temperatures to 75°C) and elution heating module (room temperatures to 75°C)
Oscillation mixing	Multiple modes and speeds
Size of the magnetic bead	>1um
Types of reagents	Magnetic bead based on open reagents
Operation screen	Large and full-color LCD touch screen
Internal programs	Built-in 15 groups of mode programs (>500 groups of programs can be stored)
Program management	Create, edit and delete mode programs
Ultraviolet irradiation	Yes
Network control	Can extend the Ethernet remote control



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Declaration: Shenzhen Dymind Biotechnology Co, Ltd reserves the right to change the product of specifications and appearance at any time. For the information of this manual, Shenzhen Dymind Biotechnology Co, Ltd reserves the right to the interpretation and the decision.

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Compact Size
High Efficiency
Safer Operation

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Principle of magnetic bead DNA extraction technology:

The magnetic beads have specific active groups on the surface, which can specifically and reversibly combine with free nucleic acid under specific conditions (different ionic strength or pH), while proteins, polysaccharides and other impurities can be left in the solution.

At same time, by adopting the magnetic responsiveness ability of magnetic beads, under the action of external magnetic field, magnetic beads (solid-phase) can be easily separated from liquid-phase to achieve the purification of nucleic acid.



The basic step of magnetic bead DNA extraction:

- (1) Using lysate to rupture cells and release nucleic acid in liquid phase;
- (2) Adopting the affinity and adsorption between the magnetic beads and nucleic acid to specifically bound the released nucleic acid, so that other impurities are still dissociated in the liquid phase during several washing steps;
- (3) By adjusting the ionic strength or pH value of the diluent, the nucleic acid adsorbed on the magnetic beads were eluted to obtain the purified nucleic acid, and magnetic beads can be recovered.

DP-NE30 is designed to isolate and purify the nucleic acid through magnetic bead method featuring more efficient extraction, compact size and safer operation

All closed designed with **UV sterilization** and **hepa filter** for air filtration, more safety

Up to **5000GS** magnetic flux, avoiding the risk of magnetic bead down

Less than **3%** of stability, provide more accurate results

