Nucleic Acid Extractor (DNA & RNA Extractor)

NAE32

The Nucleic Acid Extractor is a laboratory instrument designed to automate the extraction and purification of DNA and RNA from various biological samples. This system enables efficient and reliable isolation of high-quality nucleic acids, which is crucial for downstream applications in genetic research, molecular diagnostics, and other life sciences.

E - Catalogue

SALIENT FEATURES

- Nucleic Acid purification system
- 10.1" Touch Screen Display.
- Automatic nucleic acid extraction and purification(Selectable).
- Versatile Processes various sample types blood, tissues, cells.
- Purifies 1-32 samples simultaneously.
- Stable operation with low noise.
- Automatic, fast, easy toedit, save, delete the programs.
- Output Isolates high-quality nucleic acid samples.
- Memory stores 1,000 programs.
- Range Handles 50-1000µl volumes.
- Precise Purification CV<3% .
- High DNA Recovery >95%
- Sensitive Purification >95% positive detection rate
- Lighting & Disinfection: Includes lighting, UV disinfection.
- Magnetic rod sleeve motion mixing.
- Extension: USB

Nucleic Acid Extractor

HSN Code : 90275090

SPECIFICATIONS

MODEL	NAE32
Make	LABMAN
Display	10.1" Touch Screen
Sample Channels	1-32
Processing Volume	50~1000µl
DNA percent	>95%
Purification sensitivity	The positive detection rate for the 100-copy samples was> 95%
Internal program	1,000 sets of programs
Program Function	New, edited, saved, deleted, etc
Purified Difference	CV<3%
Nucleic extraction Operation	32 samples can be extracted
Lighting system	Available
Use consumables	96 deep hole plate + magnetic rod sleeve
Sterilization and disinfection	(UV) Ultraviolet disinfection
Various sample types	Tissues, Cells etc.,
Output	USB Interface
Magnetic rod	Shock mix up & down by motion
Mixing	Magnetic rod sleeve motion
Exhaust Method	Fan
Temperature Range	RT+5°C ~120°C
Power	500W
Power Supply	220V / 50Hz
Dimension (LxWxH)	565 x 515 x 740mm
Gross Weight	45kg

★ Specifications are subject to change without notice.

STANDARD ACCESSORIES: Main Instrument, Power Cord, Instruction Manual, Test Certificate

Nucleic Acid Extractor

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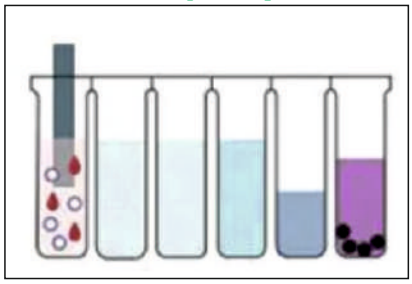
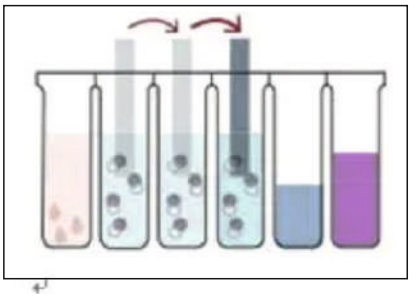
The working principle of the automatic nucleic acid extractor After the sample is lysed, the released nucleic acid molecules are specifically adsorbed on the surface of the magnetic beads, and the nucleic acid molecules are dissolved in the eluent through the built-in magnetic rod magnetic suction, transfer and washing, and with different kinds of magnetic bead nucleic acid reagents, a purer nucleic acid is finally obtained.

DNA / RNA

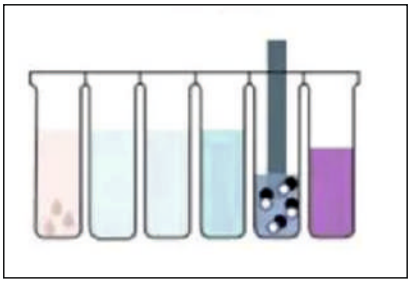
Sample Lysis



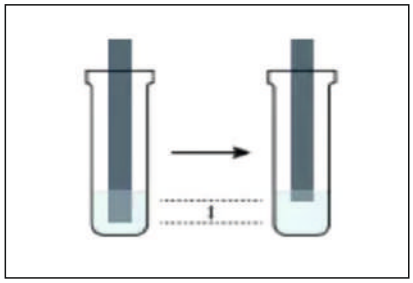
DNA/RNA Rinse



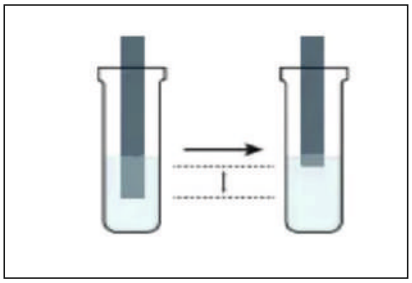
DNA/RNA Elution



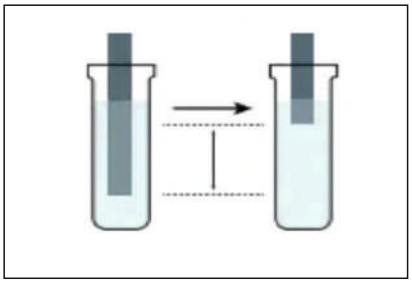
The mode of magnetic rod movement adopts the international general stepper motor as the driving device, and the magnetic rod sleeve can automatically adjust the vibration amplitude according to the volume of the solution, so that the sample is more fully mixed. The transmission device of ball screw is adopted, and the magnetic rod sleeve and magnetic rod run more smoothly, with higher precision and prolonged service life. Each moving part is equipped with a position protection function, which effectively avoids failure.



100µl

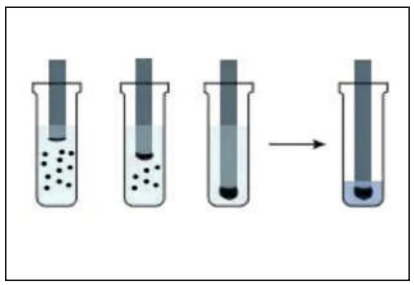


500µl

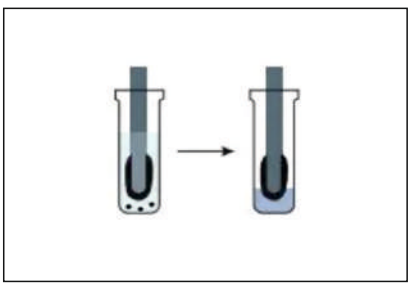


900µl

Strong adsorption mode through the newly designed strong adsorption mode, the magnetic beads are adsorbed on the head of the magnetic rod, so as to ensure that the eluent can still cover all the magnetic beads when the elution volume is small, and the magnetic bead adsorption effect is better and the nucleic acid yield is higher.



Strong Absorbtion Method



Normal Absorbtion Method