



**DNAbioTech**

Biotechnology is our expertise

## **Nucleic Acid Extractor**

**Catalog no.: DBEXM110**



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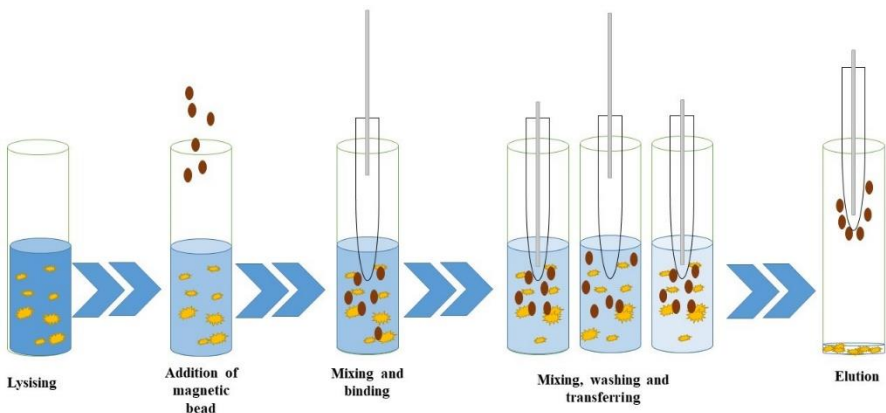
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## General description

DNABioTech. “**Automatic nucleic acid extraction machine**” is developed for nucleic acid extraction from whole blood, cultured cells, serum, plasma, or other body fluids. Automatic liquid handling technology can simplify the tasks involved in extracting nucleic acid from samples. In addition, systems typically also include some controlling and mechanical features such as PCR protocols, temperature control, and shaking.

An automatic nucleic acid extraction machine could be used in many types of biological and molecular research such as forensics, molecular biology, environmental research, pathology, and drug discovery. Selection of an automated nucleic acid extraction system can be donated safeguards against contamination, full automation from start to finish, integration with laboratory information management systems, and error control.

This product is an automatic device that can be prepared for efficient and clean nucleic acid extraction and equipped with safety functions such as UV disinfection and door opening protection.



## Machine specifications

The automatic nucleic acid extraction machine is designed for the rapid isolation of highly pure nucleic acid from whole blood, serum, plasma, or other body fluids.

Nucleic acid can be purified successfully from samples. If leukocyte-rich materials like buffy coat are used, apply smaller volumes and dilute the samples with sterile PBS (DB0010).

The product allow purification of highly pure nucleic acid with suitable concentrations.

The obtained nucleic acid extracted is ready to use for subsequent reactions like PCR, Southern blotting, or any kind of enzymatic reaction.

The extraction is fast and nucleic acid yield is high. The transmission is carried out using screw with high precision.

Experiments is clearly obvious and generous appearance.

Aerosol contamination and cross-infection decrease or removed using UV disinfection.

Extraction, extraction condition and remaining time can be observed real-time.

Vibration or mixing gear and adjustable heating mode provided to meet various experimental requirements.

Power-off protection is provided and unfinished program can be continued promptly after power is restored.

Control of misoperation through door opening protection function.

Support LAN for software update.

Fast extraction 10-50min/time (based on various reagents).

## Warranty:

### Features of Automated Nucleic Acid Extractor

The Automated Nucleic Acid Extraction System is an easy-to-use device that extracts automatically nucleic acid for contaminant and impurity detection.

#### High efficiency and large capacity

- The extraction of 1-32 samples (Multiple simultaneous extractions) can be carried out in short time (8-30min), saving time and effort and understanding high-throughput processing of samples.

#### Friendly and Convenient

- The program of this instrument is simple and friendly and users can write, edit and running program and/or select the corresponding program and click easily "Run" to work. The probably microbial contamination can be prevented or removed effectively using ultraviolet disinfection function.

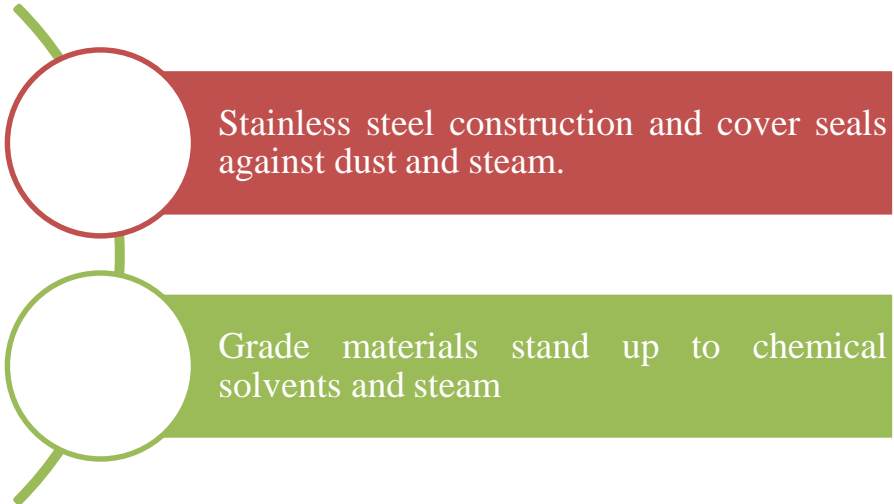
#### Precision and Accurate

- The temperature control of the product (digital timer and heat controls) is accurate and the rise of temperature does so rapid; reduction of liquid evaporation and the reaction system control is carried out using the single-row heating.

#### Safety

- This product can effectively prevent microbial contamination using UV disinfection function

### Standard Features



### **Product Description**

DBEX 32 automatic extraction machine is a special machine for nucleic acid extraction based on the automatic magnetic bead method. Nucleic acid (DNA and RNA) can be rapidly extracted from biomedical samples like body fluids and blood, and plant and animal tissues, using various reagents (Magnetic Bead Method) of nucleic acid extraction.

### **Product Pictures**





## SPECIFICATIONS

The following Product Specifications table contains detailed technical information for the DBEX 32 automatic extraction machine.

### Technical parameters

Parameter	Value
Power supply	AC110V-230V, 50Hz/60Hz, 500VA, 3.15A
Dimensions(LxWxH)	405mm x 445mm x 315mm
Weight	35kg
Extraction time	8-30mins (determined by the reagents used)

### Performance Index

Parameter	Value
Product Model	DBEX 32
Sample throughput	1-32
Processing volume	30 µl-1000µl
Recommended Sample Volume	200 µL
Suitable Consumables	96-deep-well plate, customized 6-tube strips
Magnetic bead recovery	> 98%
Well plate type	96-well deep plate

Variation b/w holes	CV<3%
Magnetic rod	32 pcs
Heat temperature	RT to 120°C
Shake mixing	3-stages adjustable
Rotating Speed	≤ 3000 rpm
Mixing Method	Rotational mixing
Reagent type	Open platform
Operate interface	10" color resistive touch screen
Built-in programs	can store 20 programs
Program management	Create, edit and delete mode with high flexibility
UV radiation	Yes
Extraction time	8-30mm
Operating Language	English
Automated Hatch	Motor-driven automatic opening and closing of the experiment cabinet.
Magnetic Bead Residue	<1%

## Quality Control

In accordance with DNABioTech Co. Management System, each part of the **nucleic acid extraction machine** is tested against predetermined specifications to ensure consistent product quality.

## Perspective

DNA Biotech. is one of Iran's leading suppliers of high-quality laboratory material, kits and instrumentation, training, and after-sales support services. Our comprehensive range of laboratory materials, kits, and instrumentation meet the needs of Research, Quality Assurance, and Quality Control in a broad range of industries including material testing, tissue culture and epigenetics, biomedical, environmental, and agricultural industries.

Today DNABioTech has expanded its product portfolio to include the sales and support of a range of laboratory materials, kits, and instrumentation.



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