





# Nucleic Acid Automated Extraction Series Products

## TS-32 Automated Nucleic Acid Extractor

Cat. No. TS-32

TS-32 Automated Nucleic Acid Extractor, based on advanced magnetic beads separation technology, possesses advantages of a high degree of automation, high-speed extraction, stable results, and simple operation. All extraction procedures of the automated nucleic acid extractor can be completed in 96-well deep-well plates without centrifugation or filtration procedures required by a routine extraction. This system enables simultaneous and rapid purification of 1 to 32 samples (including blood, tissues, cells, swabs, viruses, and other clinical or forensic specimens). The isolated high-quality nucleic acid (DNA/RNA) can be used for high-sensitivity downstream analysis, such as real-time PCR, clinical molecular diagnostics, gene expression analysis, gene analysis, forensic, infectious disease research, etc. Furthermore, cost-effective prefilled ready-to-use extraction kits will be provided for users' convenience.



### ★ Big screen with both Chinese and English languages

Big color touch screen; Chinese and English languages; Easy to use

### ★ Precise control

The built-in engineering computer endows the system the capability of operating independently without PC, which saves more space and energy, as a highly stable automatic control system

### ★ Temperature control

Users can define lysis and elution temperature according to experimental requirements

### ★ User-defined programming

Powerful programming functions support a more flexible and efficient program edition to meet different reagent requirements.

### ★ High purity & high yield

Extraction protocols can be optimized in aspects of reagents and accurate incubation time to achieve higher extraction efficiency. The isolated DNA/RNA with high purity can be used for PCR and RT-PCR directly.

### ★ Stable results

Avoid deviations and errors caused by manual operation, ensuring stable results and good reproducibility.

The matching pre-sealing plate needs to be customized. The non-pre-sealing plate displayed is not an accessory of the automatic extractor.

## MagicPure<sup>®</sup> 32 Blood Genomic DNA Kit

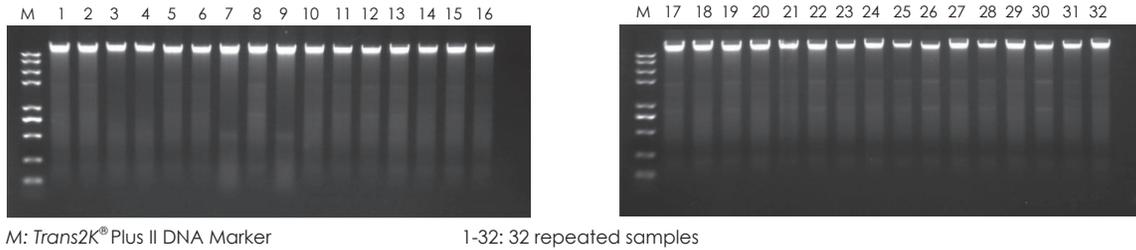
Cat. No. EC101-32

This kit utilizes enzymatic lysis method to lyse blood and silica magnetic beads to specifically bind to DNA. The silica magnetic beads have a strong attraction for the targeted DNA in the buffer system. The DNA will be released by the change of ionic strength, resulting in rapid DNA extraction. This kit can be used for efficient isolation of genomic DNA from 50  $\mu$ l to 250  $\mu$ l of fresh, frozen blood or blood treated with anticoagulants. The isolated DNA with high purity can be applied in enzyme digestion, PCR, qPCR, Southern Blot, or other experiments. This kit is compatible with 32-channel magnetic-rod automated nucleic acid extractors.

- Simple procedures; no centrifugation required; high-speed extraction
- High yield; high purity.

### Experimental results

MagicPure® 32 Blood Genomic DNA Kit is used to isolate genomic DNA from 200 µl of blood samples (32 repeated samples). Agarose gel electrophoresis results of the isolated gDNA are shown below.



M: Trans2K® Plus II DNA Marker

1-32: 32 repeated samples

## MagicPure® 32 Viral DNA/RNA Kit

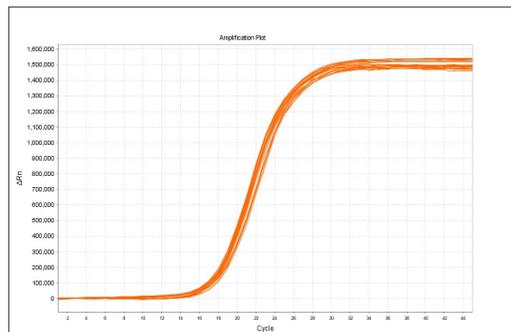
Cat. No. EC311-32

This kit utilizes a unique lysis buffer to lyse virus and release DNA / RNA. The released DNA / RNA are effectively purified after specifically binding to silica magnetic beads. It is suitable for isolating viral DNA/RNA from up to 200 µl of plasma, serum, whole blood, tissue homogenate, cell-free body fluid, nasopharyngeal or oropharyngeal aspirate/ wash, bronchoalveolar lavage fluid (BALF), tracheal aspirate, sputum, nasopharyngeal or oropharyngeal swab, and animal cell culture supernatant. The isolated DNA/RNA with high purity can be applied in PCR, RT-PCR, qPCR, and qRT-PCR, etc. This kit is compatible with 32-channel magnetic-rod automated nucleic acid extractor.

- Simple procedures; no centrifugation required; high-speed extraction
- High yield; high purity.

### Experimental results

MagicPure® 32 Viral DNA/RNA Kit is used to isolate viral DNA from 200 µl of cell culture supernatant samples (32 repeated samples) containing PRV. qPCR analysis results of the isolated DNA are shown below.



Amplification curve obtained by qPCR amplification with PRV DNA extracted from 32 repeated samples as template.

## MagicPure® 32 Buccal Swab Genomic DNA Kit

Cat. No. EC901-32

This kit utilizes a unique lysis buffer and Proteinase K to lyse cells from buccal swabs. The released DNA is effectively purified after specifically binding to magnetic beads. It is suitable for isolating gDNA from buccal swab samples (cotton swabs or nylon flocked swabs). The isolated gDNA can be used in PCR, qPCR, enzyme digestion, library preparation, or other experiments. This kit is compatible with 32-channel magnetic-rod automated nucleic acid extractor.

- Simple procedures; no centrifugation required; high-speed extraction
- High yield; high purity.

## TS-96 Automated Nucleic Acid Extractor

Cat. No. TS-96

TS-96 Automated Nucleic Acid Extractor, based on advanced magnetic beads separation technology, possesses advantages of a high degree of automation, high-speed extraction, stable results, and simple operation. All extraction procedures of the automated nucleic acid extractor can be completed in 96-well deep-well plates without centrifugation or filtration procedures required by a routine extraction. This system enables simultaneous and rapid purification of 1 to 96 samples (including blood, tissues, cells, secretions, bacteria, plants, forensic materials, amplified products, or other specimens). The isolated high-quality nucleic acid (DNA/RNA) can be used for high-sensitivity downstream analysis, such as real-time PCR, clinical molecular diagnostics, gene expression analysis, gene analysis, forensic, infectious disease research, etc. Combined with other professional magnetic bead kits, it can be used for automated purification of proteins or peptide fragments and enrichment of specific bacteria, cells and various tumor markers, etc.



### ★ Big screen with both Chinese and English languages

Big color touch screen; Chinese and English languages; Easy to use.

### ★ Precise control

The built-in engineering computer endows the system the capability of operating independently without PC, which saves more space and energy and provides a highly stable automatic control system.

### ★ Temperature control

Equipped with the heating/ cooling module; Extracted products can be automatically stored at 4°C .

### ★ User-defined programming

Powerful programming functions support a more flexible and efficient program edition to meet different reagent requirements.

### ★ High purity & high yield

Extraction protocols can be optimized according to reagents, which combined with accurate incubation time, leads to higher extraction efficiency. The isolated DNA/RNA with high purity can be used for PCR and RT-PCR directly.

### ★ Stable results

Avoid deviations and errors caused by manual operation ensuring stable results and good reproducibility.

### ★ Self-cleaning

Built-in UV lamp disinfection function used to disinfect regularly

### ★ Contamination control

The inter-well and inter-batch contamination are strictly controlled to prevent cross-contamination.

### ★ Open to reagents of multi-brands

Compatible with magnetic bead kits from other companies

### ★ Safety & Reliability

The utilization of disposable experimental materials minimizes the contact between operating personnel and the reagents. An intelligent operation system protects the operation personnel

The matching pre-sealing plate needs to be customized. The non-pre-sealing plate displayed is not an accessory of the automatic extractor.

# MagicPure® 96 Blood Genomic DNA Kit

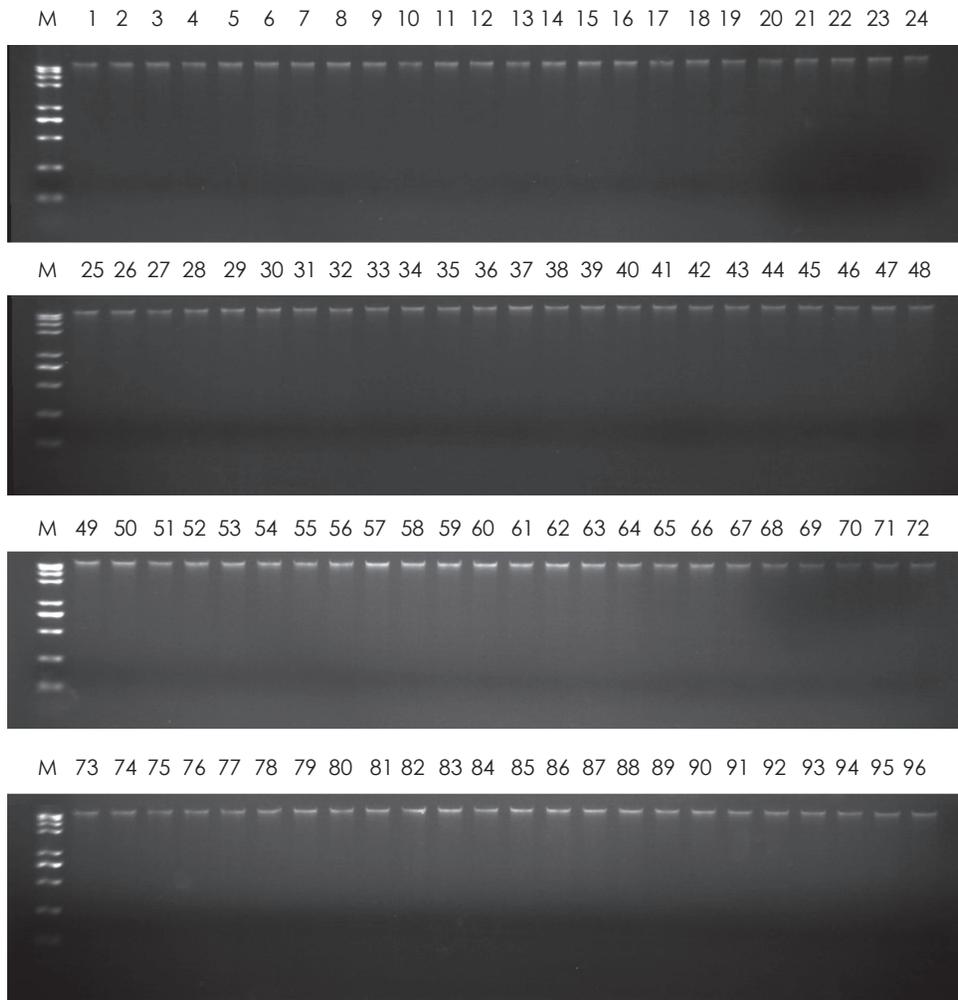
Cat. No. EC101-96

This kit utilizes enzymatic lysis method to lyse blood and silica magnetic beads to specifically bind to DNA. The silica magnetic beads have a strong attraction for the targeted DNA in the buffer system. After the ionic strength is changed, the DNA will be released, resulting in rapid DNA extraction. This kit is suitable for efficient isolation of genomic DNA from 50 µl to 250 µl of fresh, frozen blood or blood treated with anticoagulants. The isolated DNA can be applied in enzyme digestion, PCR, qPCR, Southern Blot, or other experiments. This kit is compatible with 96-channel magnetic-rod automated nucleic acid extractors.

- Simple procedures; no centrifugation required; high-speed extraction
- High yield; high purity

## Experimental results

MagicPure® 96 Blood Genomic DNA Kit is used to isolate genomic DNA from 200 µl of blood samples (96 repeated samples). Agarose gel electrophoresis results of the isolated gDNA are shown below.



M: Trans2k® Plus II DNA Marker

1-96: 96 repeated samples

## MagicPure® 96 Viral DNA/RNA Kit

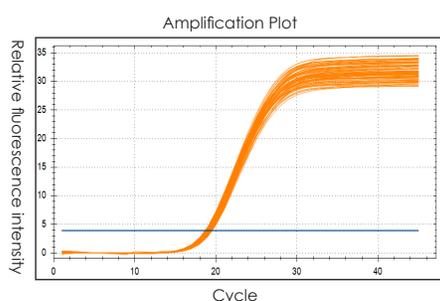
Cat. No. EC311-32

This kit utilizes a unique lysis buffer to lyse virus and release DNA / RNA. The released DNA / RNA are effectively purified after specifically binding to silica magnetic beads. It is suitable for isolating viral DNA/RNA from up to 200 µl of plasma, serum, whole blood, tissue homogenate, cell-free body fluid, nasopharyngeal or oropharyngeal aspirate/ wash, bronchoalveolar lavage fluid (BALF), tracheal aspirate, sputum, nasopharyngeal or oropharyngeal swab, and animal cell culture supernatant. The isolated DNA/RNA with high purity can be applied in PCR, RT-PCR, qPCR, and qRT-PCR, etc. This kit is compatible with 32-channel magnetic-rod automated nucleic acid extractor.

- Simple procedures; no centrifugation required; high-speed extraction
- High yield; high purity.

### Experimental results

MagicPure® 96 Viral DNA/RNA Kit is used to isolate viral DNA from 200 µl of cell culture supernatant samples (32 repeated samples) containing PRV. qPCR analysis results of the isolated DNA are shown below.



Amplification curve obtained by qPCR amplification with PRV DNA extracted from 96 repeated samples as template.

## MagicPure® 96 Buccal Swab Genomic DNA Kit

Cat. No. EC901-96

This kit utilizes a unique lysis buffer and Proteinase K to lyse cells from buccal swabs. The released DNA is effectively purified after specifically binding to magnetic beads. It is suitable for isolating gDNA from buccal swab samples (cotton swabs or nylon flocked swabs). The isolated genomic DNA can be used in PCR, qPCR, enzyme digestion, library preparation, or other experiments. This kit is compatible with 96-channel magnetic-rod automated nucleic acid extractor.

- Simple procedures; no centrifugation required; high-speed extraction
- High yield; high purity

## Other magnetic bead kits

## MagicPure® Cell-Free DNA Kit

Cat. No. EC201

This kit utilizes enzymatic lysis method to lyse samples and silica magnetic beads to specifically bind to DNA, resulting in effectively purified cell-free DNA. It is suitable for isolating and purifying high-quality cell-free DNA from 0.5-10 ml of serum or plasma. The extracted DNA can be used for PCR, and Next Generation Sequencing or other experiments. This kit is compatible with high-throughput magnetic-rod automated nucleic acid extractor.

- Simple procedures; no centrifugation required; high-speed extraction
- High yield; high purity

## ■ **MagicPure<sup>®</sup> FFPE Tissue Genomic DNA Kit**

Cat. No. EC701

This kit is designed to extract DNA from formalin-fixed paraffin-embedded tissues. This kit utilizes enzymatic lysis method to lyse cells and silica magnetic beads to specifically bind to DNA. It is suitable for isolating genomic DNA from paraffin-embedded tissues or paraffin sections. The extracted DNA can be used for PCR, and Next Generation Sequencing or other experiments. This kit is compatible with high-throughput magnetic-rod automated nucleic acid extractor.

- Fast extraction; high yield; high purity;
- High purity due to buffers optimized for FFPE tissues samples and magnetic beads efficiently and specifically binding to DNA and effectively eliminating inhibitors such as proteins salts and so on

## ■ **MagicPure<sup>®</sup> Stool and Soil Genomic DNA Kit**

Cat. No. EC801

This kit is designed to isolate and purify DNA from stool or soil samples. Unique lysis buffer is utilized to lyse solid or liquid samples rich in inhibitors and contaminants, and magnetic beads are used to specifically bind to DNA. The isolated DNA is suitable for routine molecular biology experiments, including PCR, qPCR, and Next-Generation Sequencing. This kit is compatible with high-throughput magnetic-rod automated nucleic acid extractor.

- Fast extraction; high yield; high purity;
- High purity due to buffers optimized for stool and soil samples and magnetic beads efficiently and specifically binding to DNA and effectively eliminating inhibitors included in stool and soil

## ■ **MagicPure<sup>®</sup> Mouse Tissue Genomic DNA Kit**

Cat. No. EC111

This kit is designed to extract DNA from mouse tissues (mouse ear, mouse tail, etc.) Unique lysis buffer is utilized to lyse solid or liquid samples rich in inhibitors and contaminants, and magnetic beads are used to specifically bind to DNA. The isolated DNA is suitable for routine molecular biology experiments, including PCR and qPCR. This kit is compatible with high-throughput magnetic-rod automated nucleic acid extractor.

- Fast extraction; high yield; high purity;
- High purity due to buffers optimized for mouse tissue samples and magnetic beads efficiently and specifically binding to DNA and effectively eliminating inhibitors for downstream experiments.

### Notes

- Please refer to product protocol for storage condition.
- Further details can be found in the customer contact below. For any questions, please contact us by calling Customer Service at +86-400-898-0321 or contact our distributors.

## **TRANSGEN BIOTECH CO., LTD.**

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