

ADVANCED EXTRACTION

ALONG WITH

GENTi™ 32 ADVANCED

Automatic Nucleic Acid Extraction System



I Nucleic acid has been greatly enhanced by the advent of high-throughput system

GENTi™ 32 ADVANCED is a high-throughput instrument for automated nucleic acid purification. It allows rapid purification of nucleic acids from a wide variety of samples driven by proven magnetic bead separation technology.



GENTi™ 32 ADVANCED has advanced features such as well-organized operation protocols for users to apply optimal workflow which best suit a variety of downstream needs and an intuitive touch screen a UV sterilization cycle, providing an extra level of convenience and reproducibility.

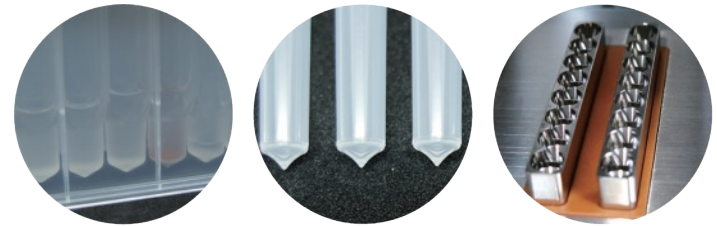
Combined with conical-designed 96 deep-well deep plate, the fully integrated and versatile pre-packaged kits offer superior yield of nucleic acids and high-quality results in a various downstream applications such as PCR, qPCR, RT-PCR, RT-qPCR, sequencing, genotyping, and gene expression.

Product features

- High speed and quality performance driven by proven magnetic bead technology
- Pre-loaded reagents and fully automated sample processing, minimal hands-on time
- 2 versatile kits for purification of genomic or bacterial DNA, total RNA, or viral DNA/RNA
- Supports a broad range of sample materials : whole blood, plasma, body fluids, cultured cells, tissues, swab, stool and urine

High efficiency with newly designed tools

Conical shaped 96 deep-well plate and magnetic rod cover are newly designed to maximize sample recover. The conical shape is ideally suited for entire sample to be mixed with magnetic particles and ensures no magnetic beads residual or detaining on the well side.



96 deep-well plate

magnetic rod cover

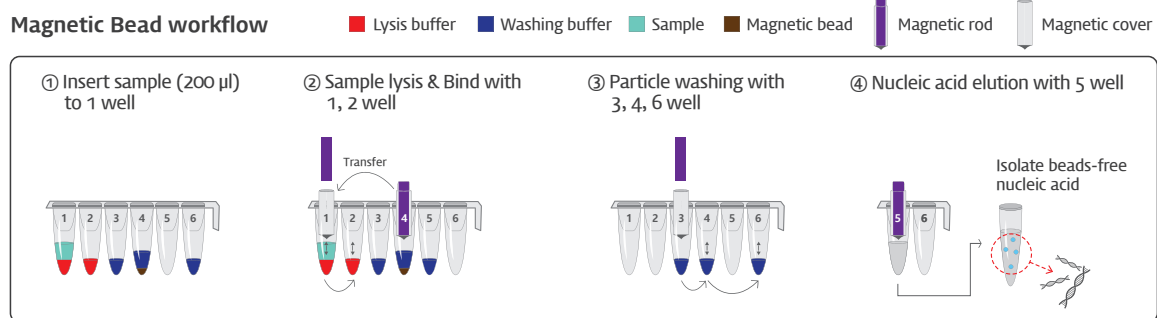
heating block

Enhanced encapsulated deep-well heating block significantly increases temperature control accuracy, improves efficiency of lysis and elution.

Close fit of conical shaped plate, rod cover and heat block for efficient lysis and elution

High quality extraction with magnetic particle mover

The use of advanced magnetic bead separation technology minimizes the risk of cross-contamination, precision pipetting and clogging worries, yielding highly purified nucleic acid.



High flexibility in operation protocols

GENTi™³² ADVANCED system offers three different types of operation protocols depending on the requirement of the downstream application to be used. It provides flexibility with 'Fast', 'Normal', and 'High' protocols for the operation.

Match your purification needs to three operation protocols best suited to your sample type and downstream application.

| Protocol | Uses and Purpose |
|----------------------------|--|
| Fast (17' 46") | <ul style="list-style-type: none"> • Time-saving, high-speed extraction of POC test or PCR-ready nucleic acid • Double check the accuracy of positive sample rapidly |
| Normal (29' 35") | <ul style="list-style-type: none"> • Standard procedure of high quality nucleic acid extraction • Optimized for nucleic acid extraction from a variety of clinical samples |
| High (42' 12") | <ul style="list-style-type: none"> • High throughput NGS-grade nucleic acid extraction • Accommodate complex samples |

High level of convenience with 3 easy step

GENTi™³² ADVANCED takes ease of use to a new level. Place pre-filled cartridges in the GENTi™³² ADVANCED. Press "Run" to purify 1-32 samples using the pre-programmed method. In just three step, the GENTi™³² ADVANCED system yields pure, high-concentration nucleic acid.

GENTi™³² ADVANCED System Workflow

1

Load Sample



Load samples into 96 deep-well plate

2

Load System



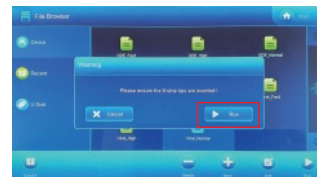
On-board 96 deep-well plate



Insert magnetic rod cover

3

Start Run



- Select operation protocol
- Fast throughput for up to 32 samples/run

System Specification

| Parameter | Specification |
|------------------------------|---|
| DNA/RNA Extraction Method | Magnetic Bead Technology |
| Throughput | Up to 32 samples |
| Processing Time | Fast protocol : (17' 46") Normal protocol : (29' 35") High protocol : (42' 12") |
| Display | 8" inch LCD Touch Display |
| Convenience Function | Automatic Self Test & USB Update |
| Input Power Universal Supply | 100~240 V, 50-60 Hz, 1.5 A, 600 W |
| Output Power | +24VDC +3% (150 W maximum) |

| Parameter | Specification |
|--|---|
| Power Supply | UL/CSA/CE Approved universal power supply with IEC connection |
| Dimension | 395 W x 430 L x 435 WH (mm) |
| Weight | 32.5 kg |
| Operating Temperature, Relative Humidity | 10°C to 40°C (50°F to 104°F), 38% to 85% R.H. Non-Condensing |
| UV Lamp Life Time | Approx. 4800 hours |
| Maximum Sample Volume | 200 µl |
| Elution Volume | 100 µl |

Ordering Information

| Category | Cat. No. | Product Name |
|------------------------------|----------|--|
| Equipment | GTIO32A | GENTi™ ³² Advanced Automatic Extraction Equipment |
| Genomic DNA Extraction kit | 901-096A | GENTi™ ³² Advanced Genomic DNA Extraction Kit (Plate Type, 96T) |
| Genomic DNA Extraction kit | 901-048A | GENTi™ ³² Advanced Genomic DNA Extraction Kit (Tube Type, 48T) |
| Viral DNA/RNA Extraction kit | 902-096A | GENTi™ ³² Advanced Viral DNA/RNA Extraction Kit (Plate Type, 96T) |
| Viral DNA/RNA Extraction kit | 902-048A | GENTi™ ³² Advanced Viral DNA/RNA Extraction Kit (Tube Type, 48T) |
| Plant DNA/RNA Extraction kit | 904-096A | GENTi™ ³² Advanced Plant DNA/RNA Extraction Kit (Plate Type, 96T) |
| Plant DNA/RNA Extraction kit | 904-048A | GENTi™ ³² Advanced Plant DNA/RNA Extraction Kit (Tube Type, 48T) |
| Blood DNA Extraction kit | 903-096A | GENTi™ ³² Advanced Blood DNA Extraction Kit (Plate Type, 96T) |
| Blood DNA Extraction kit | 903-048A | GENTi™ ³² Advanced Blood DNA Extraction Kit (Tube Type, 48T) |
| Fecal DNA/RNA kit | 913-096A | GENTi™ ³² Advanced Fecal DNA/RNA Kit (Plate Type, 96T) |
| Fecal DNA/RNA kit | 913-048A | GENTi™ ³² Advanced Fecal DNA/RNA Kit (Tube Type, 48T) |

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