

# GeneFlex Automatic Nucleic Acid Extractor

For flexible throughput needs, GeneFlex is your ideal answer

GeneFlex Automatic Nucleic Acid Extractor is a compact and flexible automatic nucleic acid extractor designed with rotary mixing technology (RMT). GeneFlex can flexibly compose 16 x n different throughputs to meet the needs of simultaneous extraction for different projects without interfering with each other. Apart from its excellent performance, GeneFlex has also won the German Red Dot Design Award 2021 for its user-friendly design. With flexible throughput and independent extraction module, GeneFlex can be your ideal choice for faster and immediate testing tasks


- Flexible throughput
- Small footprint
- Immediate results



## FEATURES

- Highly flexible for your needs**  
 GeneFlex can flexibly compose 16 x n different throughputs to meet the needs of simultaneous extraction without interfering with each other. With independent extraction module, GeneFlex can realize your different but immediate testing needs from various applications.
- Automated workflow and remote upgrade**  
 Automatic identification of reagent protocols and position of mixing sleeves; Remote upgrade and maintenance of instruments and reagent programs.
- Minimized contamination measures**  
 1) UV lamp; 2) Internal negative pressure; 3) HEPA filtration; 4) Rotary mixing to reduce aerosols; 5) Able to work inside a biosafety cabinet for highly-contaminated samples.
- User-friendly and convenient**  
 1) 6.86-inch touch screen operation or smartphone/tablet APP control with Wifi connection; 2) Automatic shutdown after UV disinfection; 3) Noise-free design.
- Easy to start experiment anywhere**  
 With mobile power, GeneFlex can start the experiment anywhere to meet different scenario testing needs.

## SPECIFICATIONS

| Model                        | GeneFlex 16   | GeneFlex 32 | GeneFlex 48  | GeneFlex 96 | GeneFlex 192 |
|------------------------------|---|-------------|--|-------------|--------------|
| Throughput                   | 16  | 32          | 48   | 96          | 192          |
| Processing Volume            | 20μL-1700μL   |             |  |             |              |
| Sample Processing Volume     | 200-500μL   |             |  |             |              |
| Compatible Consumables       | <br>Customized 96-deep-well plates |             | <br>Customized single 6-strip tubes |             |              |
| Inter-well Difference        | CV≤3%   |             |  |             |              |
| Mixing Method                | Rotary mixing   |             |  |             |              |
| Rotary Speed                 | 100-3000rpm   |             |  |             |              |
| Temperature Control Range    | Temperature control separately for lysis and elution. Temperature range from 30°C to 120°C.                           |             |  |             |              |
| Temperature Control Accuracy | Heating speed: 4.0±0.2°C/s.<br>Temperature accuracy: ±1.0°C.<br>Temperature uniformity: ≤1.0°C.                       |             |  |             |              |
| Languages                    | Chinese/English   |             |  |             |              |
| Protocol Management          | Flexible to create, edit and delete protocols   |             |  |             |              |
| Operation Mode               | Mode 1: Android systems in smartphones/tablets<br>Mode 2: 6.86 inch full-color LCD screen                             |             |  |             |              |
| Automatic Control            | Automatic opening and closing of the experiment cabin   |             |  |             |              |
| Reagent Identification       | Automatic identification of reagent information and running the assays  |             |  |             |              |
| Mixing Sleeve Monitoring     | Real-time monitoring of the mixing sleeves status in experiment   |             |  |             |              |
| Magnetic Bead Residue        | ≤1%   |             |  |             |              |
| Power Failure Protection     | Choose freely whether or not to continue the experiment when the power is on again after cutting off                  |             |  |             |              |
| Disinfection                 | Ozone + UV disinfection   |             |  |             |              |
| Auto Power-off               | Auto power-off after UV disinfection  |             |  |             |              |
| Negative-Pressure Filtration | Negative pressure HEPA filtration module  |             |  |             |              |
| Connection Port Type         | USB port  |             |  |             |              |
| Weight                       | 7.4Kg (net)   |             |  |             |              |
| Instrument Dimensions        | 210mm(L)*229mm(W)*242mm(H)  |             |  |             |              |
| Power Supply                 | AC 100-240V, 50Hz   |             |  |             |              |

## EXTRACTION MENU

| Product Name   | Sample Type   | Ordering Code           |
|--|---|-------------------------|
| Virus Nucleic Acid Extraction Kit                                      | Whole blood, serum, plasma, tissue fluid, urine, and swab media, etc.               | T338H/T528H             |
| Virus Nucleic Acid Extraction Kit (rapid within 15min)                 | Swab media or other samples   | T339H                   |
| Whole Blood DNA/RNA Extraction Kit (For SMA Detection)                 | Whole blood samples   | T509H                   |
| Animal DNA/RNA Extraction Kit  | Nasopharyngeal swabs, environmental samples, serum, blood swabs, and tissue samples | T079H/T080H             |
| Viral DNA/RNA Extraction Kit   | Environmental samples   | T806H/T807H/T808H       |
| Nucleic Acid Extraction Kit (For Plant Tissues Genomic DNA Extraction) | Plant tissue samples  | T822H/T823H/T824H       |
| Nucleic Acid Extraction Kit (For HCMV/EB DNA Extraction)               | Serum, plasma, urine, whole blood, swab samples                                     | T524H/T525H/T526H/T527H |
| Nucleic Acid Extraction Kit (For Bacteria Genomic DNA Extraction)      | Bacterial suspension cultures, cotton swabs, sputum, body fluids and stool samples  | T529H/T530H             |
| Nucleic Acid Extraction Kit (For Pet Diagnosis)                        | -   | T820H                   |

\*More extraction reagents are under development and will come soon.

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