MGI 华大智造

8 samples **16** samples **24** samples **32** samples

Flexible Efficient
Safe Reliable

MGISP-100B

MGI 华大智造

AUTOMATED NUCLEIC ACID EXTRACTION
AND PURIFICATION SYSTEM

MGISP-100B

CB CE NMPA

To Develop and Promote Advanced Life
Science Tools for Future Healthcare

■ MGISP-100B

MGISP-100B is a liquid handling workstation with integrated 8 channel pipette, which can be used for extraction. MGISP-100B can work with MGIEasy Nucleic Acid Extraction Kit and extract 8/16/24/32 samples per run. It also can be used to set up RT-PCR after extraction automatically.

8 Channel Pipette

Accurate positioning, fast movement, high efficiency

Pipette Type	Fixed 8 channel pipette
Pipetting Range	2 μL~200 μL
Pipetting Precision	2 μL : <5% 200 μL : <1%
Pipetting Accuracy	2 μL : <±10% 200 μL : <±1%
Positioning Precision of Robotic Arm	± 0.1mm
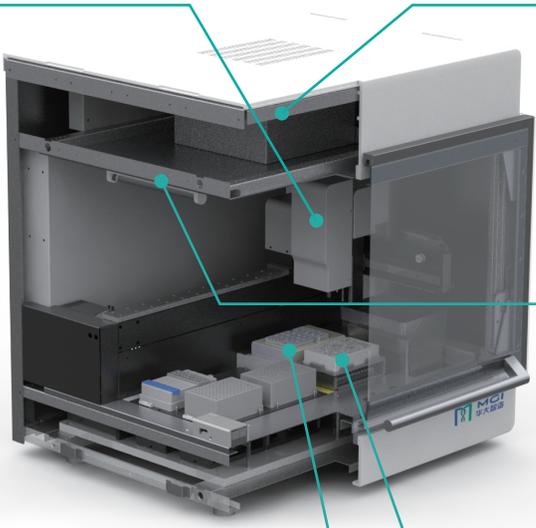
HEPA system

Positive pressure
ISO5 Class

UV Disinfection

Integrated 2 UV lamps, ensure that each space of the instrument can obtain the same intensity of exposure

Radiation dose
higher than 100 000μW.s/cm²

Automatic up/down Magnetic Rack

The magnetic rack can be up/down automatically.Avoid the mechanical grip designed for more stable operation

Temperature Control Module

Accurate temperature control, range from 4°C to 90°C.

Temperature range	4~90°C
Temperature accuracy	±1°C at 55°C
Temperature uniformity	±1°C at 72°C

Flexible
- Each run can perform 8/16/24/32 samples within 40-80min.
- Easy to operate, no manual intervention during extraction.

Efficient
- Integrate various functions, require less than 0.5m³.
- Can perform extraction and RT-PCR setup, just cooperate with few common auxiliary device.

Safe
- Use filter tips for avoiding cross contamination.
- Enclosed safety protection door and automated extraction to protect operator.

Reliable
- Good repeatability between run and run, stable extraction performance.
- The lower limit of the pipetting range is 2 μL . The accurate pipetting precision ensure higher extraction efficiency.

■ PERFORMANCE

AVE_Ct · · · · · · · · · · CV

Chart axis: 28, 27, 26, 25, 24, 23, 22, 21, 20 (left); 3.00%, 2.50%, 2.00%, 1.50%, 1.00%, 0.50%, 0.00% (right)

Categories: Manual | 8 samples/run | 16 samples/run | 24 samples/run | 32 samples/run
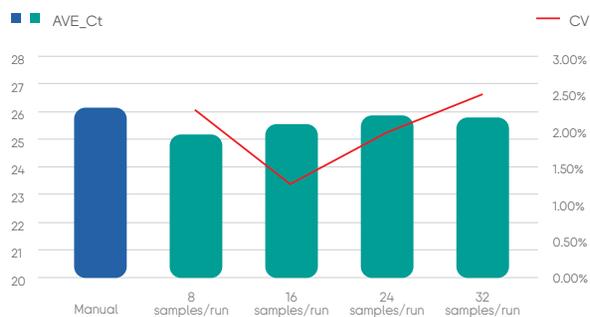
■ Manual Extraction   **■ Automated Extraction**

RNA virus extraction kit (silica membrane)   MGIEasy Nucleic Acid Extraction Kit + MGISP-100B

● **Test method**   Manual vs Automation

● **Evaluation standard**   RT-PCR

● **Test samples**   Simulated samples of throat swab containing novel corona virus(RNA)，dilute them in different concentrations.

● **Test results**   Ct value of fluorescent quantitative PCR acquired by using automation is lower than manual, that demonstrated the yield of virus RNA is higher than manual. Meanwhile, the reproducibility of different throughput is great, it's cv of CT value is less than 2.5%.

■ ONE-STOP SOLUTION

Provide instrument, consumables and kits for extraction

Sample ↻ Automated Extraction ↻ Automated RT-PCR Reaction Setup → RT-PCR
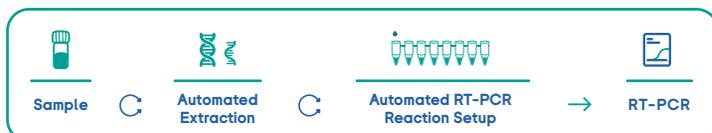
MGIEasy Nucleic Acid Extraction Kit

- Good extraction stability
- Compatible with automated system
- High nucleic acid recovery rate
- Adapted to most downstream applications: PCR, RT-PCR, Sequencing, etc

MGISP-100B

Automated Nucleic Acid Extraction and Purification System

- Automated extraction step
- Automated RT-PCR reaction setup
- Compatible with third part extraction kit*
- 40-80min can run 8-32 samples within 40-80 minutes

*Need to be verified first

MGISP-100B

Automated Nucleic Acid Extraction and Purification System

Flexible to choose 4 types throughput

ORDER INFORMATION

Equipment

Cat. No.	Product name	Specification
900-000286-00	MGISP-100BRS Automated Nucleic Acid Extraction and Purification System	EA, CE RUO
900-000285-00	MGISP-100B Automated Nucleic Acid Extraction and Purification System	EA, CE IVD

Reagents

Cat. No.	Product name	Specification
1000020471	MGIEasy Nucleic Acid Extraction Kit	96 preps, RUO
1000021042	Nucleic Acid Extraction Kit	96 preps, CE IVD

Consumables

Cat. No.	Product name	Specification
1000000723	250μL automated filter tips	10 boxes/case
1000004644	1.3mL U-bottom deep-well plate	2 plates/bag
1000023283	0.2mL PCR 8-Strips with flat caps	125 strips/box

CONTACT US

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