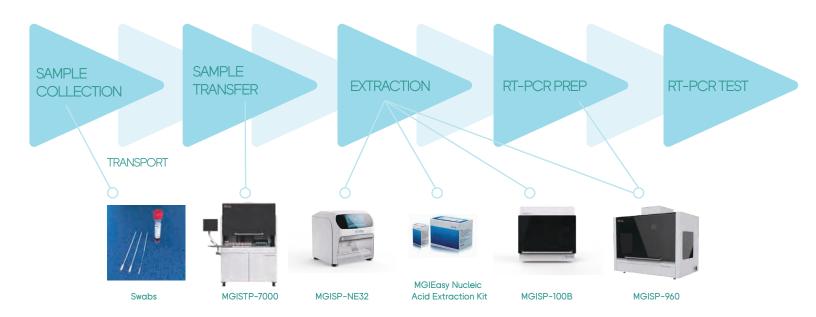


MGI SARS-CoV-2 Automated Extraction Solutions

MGI has been at the forefront of developing and deploying SARS-CoV-2 testing solutions from day one. We've enabled accurate and reliable virus detection through high throughput automated extraction solutions in more than 80 countries. Improving accuracy and throughput of testing is our top priority.

SARS-CoV-2 Testing Workflow



Swabs & VTM



• Sterile • Safe

Product details

Product Name

Specification

Product Components

Tip Material

Regulatory Approvals

SAMPLE COLLECTION

Disposable Sampling Kit

50 PCS/BOX

A pcs including a swab and a preservation solution

Nylon flocking

NMPA; CE [Check with MGI sales for local compliance]



MGI

MGISTP-7000

A MGI

MGISTP-7000

Convenient Sample Loading

Airtight sample tubes in a standard rack reduces exposure to samples. System can run up to 7000 samples per day.

No Manual Handling

One Epson robot arm, four recap and de-cap modules, four barcode scanners, and two channel-independent pipette heads. Barcode information can be automatically stored and transferred to any LIMS system.

Highly Versatile

Two pipetting channels allow free configuration for volume range and disposable tips. Samples can be trasnferred into ANSI/SBS 96-well microplates rapidly without manual pipetting errors, supporting a wide variety of automation laboratory equipment.

Unmatched Safety

Re-cap sample tubes after liquid transfer to minimize sample exposure and prevent cross contamination. All samples will be returned to their original location. Provide HEPA-filtration and UV light to ensure a safer operation envrionment.

High Productivity



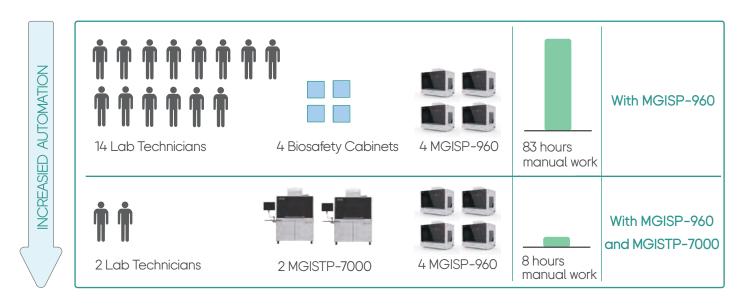
*Universal fit. Excellent fit on 5mL and 10mL Transport Tubes, with Screw cap.



Efficient, safe, and reliable



10,000 samples per day:



Product Specifications

Functions	Integrates multiple functions, including decapping, recapping,barcode identification, automated liquid transfer,		Pipetting Method	Based on the principle of air displacement, with disposable tips
	HEPA-filtration and negative pressure protection		Volume Range	10 μL-1000 μL
Throughput	192 samples/40 min; 7000 samples/day 1D & 2D Scanner Sensors	Pipetting	CV	10 μL: <5% ; 100 μL: <2%
Barcode Scanner		Precision		1000 μL: <1%
Tube Compatibility	Universal fit. Excellent fit on 5 mL and 10 mL		Accuracy	10 μL: <±10% ; 100 μL: <±5%
	Transport Tubes, with Screw cap		Accuracy	1000 μL: <±2%
Dimensions	1470mm(W) * 960mm(D) * 2100mm(H)	Weight	550 kg	

Ordering Information

Equipment

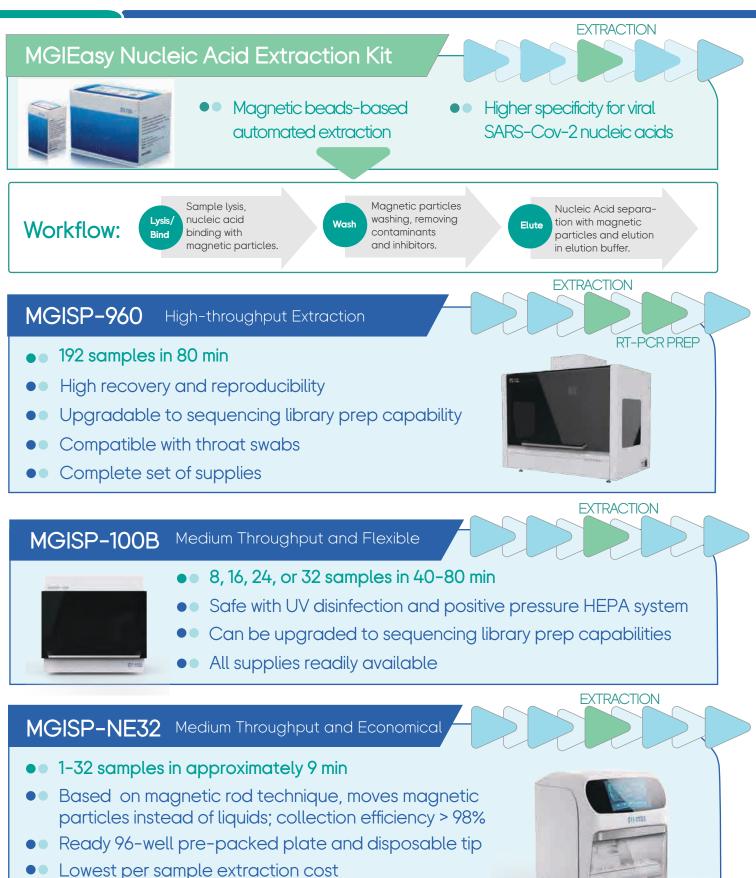
Cat. No.	Product name	Specification
900-000336-00	MGISTP-7000RS Sample Transfer Processing System	CE RUO
900-000334-00	MGISTP-7000RS Sample Transfer Processing System	CEIVD

Consumables

Cat. No.	Product name	Specification
1000023969	1000ul black conductive tips, sterile, filter	16 boxes/case
1000023970	1000ul transparent tips, sterile, filter	16 boxes/case
014-000101-00	MGISTP-7000 sample rack A	EA



Mod OVERVIEW



*For Research Use Only, Not for Use in Diagnostic Procedures

8-inch built-in touch screen

PERFORMANCE

SARS-CoV-2 Extraction using MGISP-960

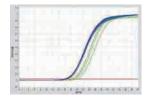
• Test method

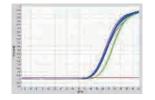
Compare automated extraction using RT-PCR with MGIEasy Nucleic Acid and Qiagen Virus RNA Extraction Kits with flourescent PCR to quantify virus RNA.

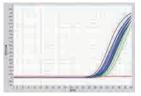
• Test results

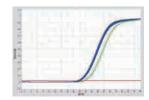
Lower Ct values using the MGIEasy Extraction Kit demonstrated a higher viral RNA yield compared to Qiagen Extraction Kit.

Comparison of fluorescent PCR peak diagram of two nucleic acid extraction reagent kits:









Simulated sample of saliva 1

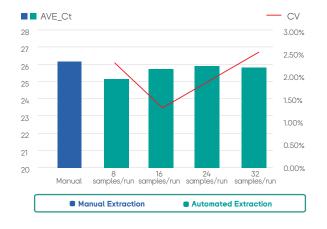
Simulated sample of saliva 2

Simulated sample of saliva 3

Simulated sample of throat swab

In the above diagrams, the blue curve refers to the fluorescent PCR test result of MGIEasy Nucleic Acid Extraction Kit + MGISP-960, and the green curve refers to fluorescent PCR test result of competitor's Q Virus RNA Extraction Reagent Kit + manual.

SARS-CoV-2 Extraction using MGISP-100B



Test method

Compare manual vs. automation using MGIEasy Nucleic Acid Extraction Kit and $\operatorname{RT-PCR}$

Test samples

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

• Test results

Data demonstrates a higher viral RNA yield and better CV using MGISP-100B



SARS-CoV-2 Extraction using MGISP-NE32

Test method

Compare manual vs. automation using RT-PCR

• Test samples

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

• Test results

Comparable Ct values using both methods demonstrated the similar viral RNA yields between MGISP-NE32 and manual extraction. The CV for Ct value using MGISP-NE32 is less than 2.5%

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PRODUCT DETAILS

	MGISP-960	Andrew Hop
Throughput	80 192 min Samples	40-80 min 8,16,24,32 Samples
Dimensions	1240 (L) * 740 (W) * 1110 (H) mm	780 (L) * 725 (W) * 777 (H) mm
Weight	250 kg	120 kg
Pipette Type	Fixed 96 channel	Fixed 8 channel
Range	2 ~ 200 μL	2 ~ 200 μL
CV	2 μL : <5%, 200 μL : <1%	2 μL : <5%, 200 μL : <1%
Accuracy	2 μL : < ±10%, 200 μL : < ±1%	2 μL : < ±10%, 200 μL : < ±1%
Temperature Range	~4-99 °C	~4-90 °C
Temperature Accuracy	±1 °C at 55 °C	±1 °C at 55 °C
Temperature Module	±1 ℃ at 72 ℃	±1 °C at 72 °C

	Hitts	Throughput	9 1-32 min Samples
	MGISP-NE32	Well Variation	<3%
Dimensions	430 (L) * 395 (W) * 435 (H) mm	Magnet Particles Collection Efficiency	≥98%
Weight	32.5 kg	Temperature Control	From +5 °C above ambient to 125 °C
Pipette Type	4 x 8 magnetic rods	Temperature Precision	≤±1 °C
Processing Volume	20 ~ 1000 μL	Mixing Module	Adjustable with multiple modes & gears

ORDERING INFORMATION

MGISP-960

Equipment

Cat. No.	Product name	Specification
900-000154-00	High-throughput Automated Sample Preparation System MGISP-960RS, V9	EA, CE RUO
900-000165-00	High-throughput Automated Sample Preparation System MGISP-960, V9	EA, CE IVD

Reagents

Cat. No.	Product name	Specification
1000020261	MGIEasy Magnetic Beads Virus DNA/RNA Extraction	1728 preps, RUO
1000020471	MGIEasy Magnetic Beads Virus DNA/RNA Extraction	96 preps,RUO

Consumables

Cat. No.	Product name	Specification
100000723	250µL automated filter tips	10 boxes/case
1000004644	1.3mL U-bottom deep-well plate	2 plates/bag
1000012059	Hard-shell thin-wall 96-well skirted PCR plates, white shell/clear well	10 plates/bag

MGISP-100B

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, CE RUO
1000021042	Nucleic Acid Extraction Kit	96 preps, CE IVD

Consumables

Cat. No.	Product name	Specification
100000723	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

MGISP-NE32

Equipment

Cat. No.	Product name	Specification
950-000020-00	MGISP-NE32RS Automated Nucleic Acid Extractor	EA, CE RUO
950-000013-00	MGISP-NE32 Automated Nucleic Acid Extractor	EA, CE IVD

Reagents

Cat. No.	Product name	Specification
1000023774	Nucleic Acid Extraction Kit	32 preps, CE RUO
1000022606	Nucleic Acid Extraction Kit	32 preps, CE IVD

CONTACT US

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