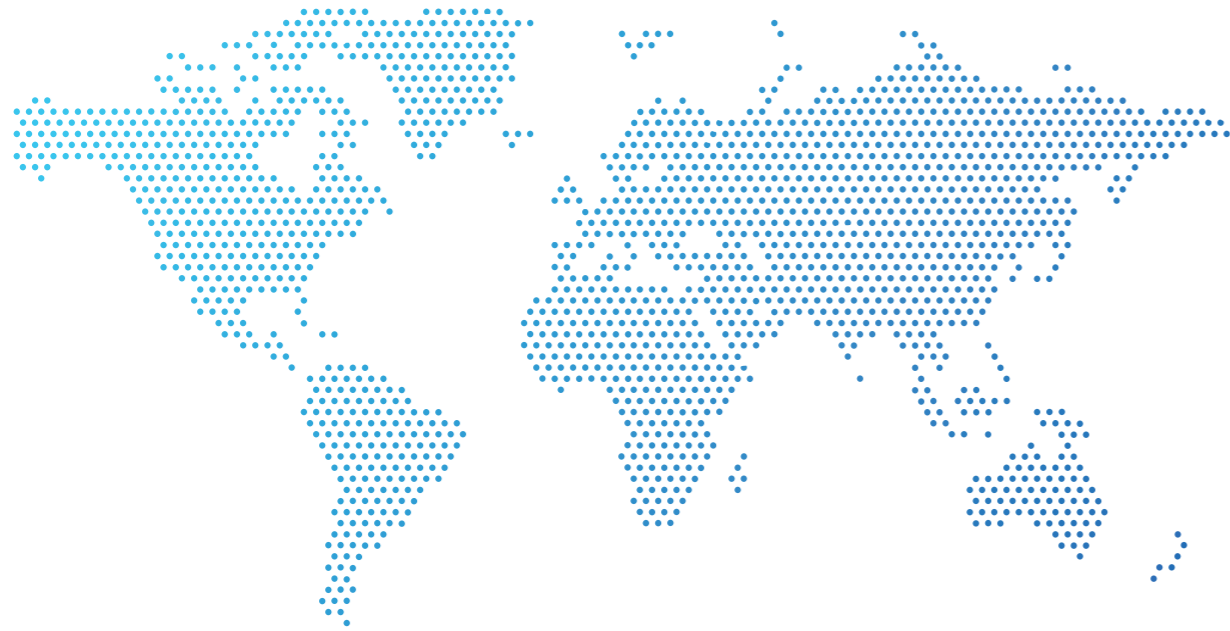


Technical Support & After-sales Service

Global technical support network to provide customers with efficient and high-quality after-sales service of the manufacturer:

- One-stop service includes device installation, maintenance, repair, training, and compliance verification;
- Fast and on-demand script development seamlessly transforms your existing solutions to an automated platform;
- Exemption of labor, parts, and travel expenses for failures caused by quality or design during the warranty period;
- Various extended warranty products to match your needs and budget, to maximize your instrument output.



Contact Us

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Automation Solution

Massive Parallel Sequencing Library Preparation



MGISP-960

High-throughput Automated Sample Preparation System

Safer, faster, and fully automated

User-friendly design

- 01 Compact design, smaller space occupation, even an ordinary laboratory table can meet the requirements.
- 02 Easy-to-use UI makes everyone an expert.
- 03 Operating authorization can be set for different users, which is safe and flexible.

Unattended automation

- 01 Functional modules work concurrently and the library preparation process is more efficient.
- 02 Various modules are integrated to achieve fully-automated library preparation.
- 03 Strong troubleshooting and recovery capabilities maximize user sample safety.

Perfect pollution prevention

- 01 The pipetting principle of air displacement has no risk of system liquid contamination.
- 02 The preset pre-cleaning and post-cleaning modes that comply with safety regulations greatly reduce the risk of contamination.
- 03 Supporting low-cost filter tips to avoid aerosol contamination on the premise of economy.



Compact operation deck

High-precision 96-channel pipette

Microplate gripper

Automated PCR

Effective 96-well plate magnetic frame

Plate-type shaker

Full verification

- Rich experience in R&D of high-throughput sequencing technologies
- Process verification uses real samples and reagents to ensure the reliability and stability of library preparation

Fully preset and ready to use

- Ready-to-use automated system
- Various preset processes for popular kits
- Substantially shortened verification time on customer site

Flexible customization

- Customizable on various demands
- Open process-editing

Highly efficient filter

UV disinfection lamp

4 °C to 90 °C temperature control module

Various integrated functions
and preset automated processes

Applicable reagent kits



Vazyme

DNA Library Preparation /02
RNA Library Preparation /05

Agilent Technology

WES Library Preparation /06

Paragon Genomics

Multi-PCR Library Preparation /07

DNA Library Preparation

Your exclusive sample preparation workstation

MGISP-960



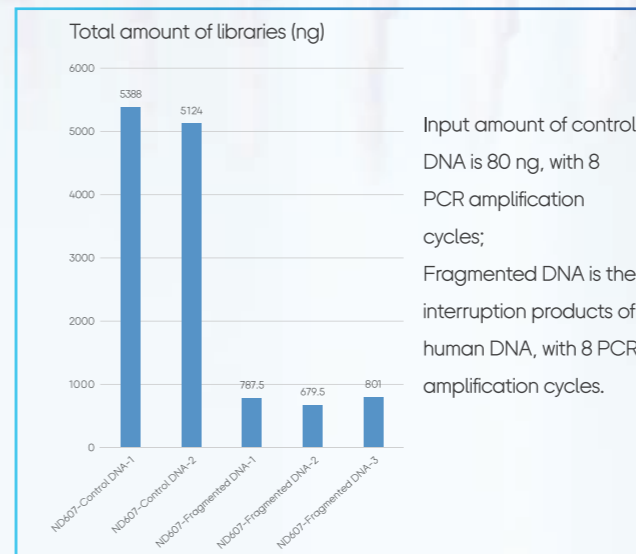
	MGISP-960	Manual Operation
Library Prep Duration	3.7 h/run	About 5 h/run
Duration Details	0.2 h (Manual) + 3.5 h (Auto)	All Manual
Throughput	96 samples/run, 1 MGISP-960	≤16 samples/run, 1 Person
Stability	High	Depends on the operator's proficiency and other factors

Recommended configurations | Cat. No.: 900-000107-00

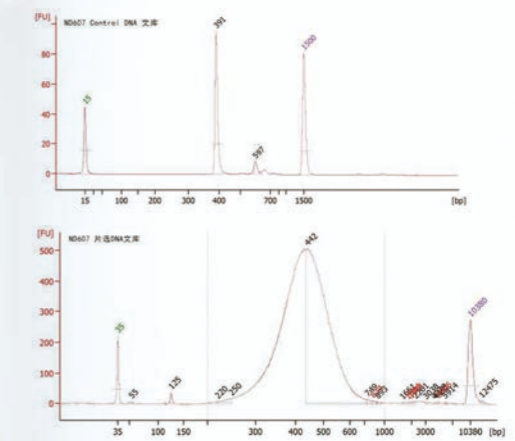
- MGISP-960
- 1 Shaker
- 1 Temperature Control Module
- 1 PCR
- 1 Magnetic Frame
- 1 Higher Position
- 1 Lower Position

Vazyme VAHTS Universal DNA Library Prep Kit for Illumina V3

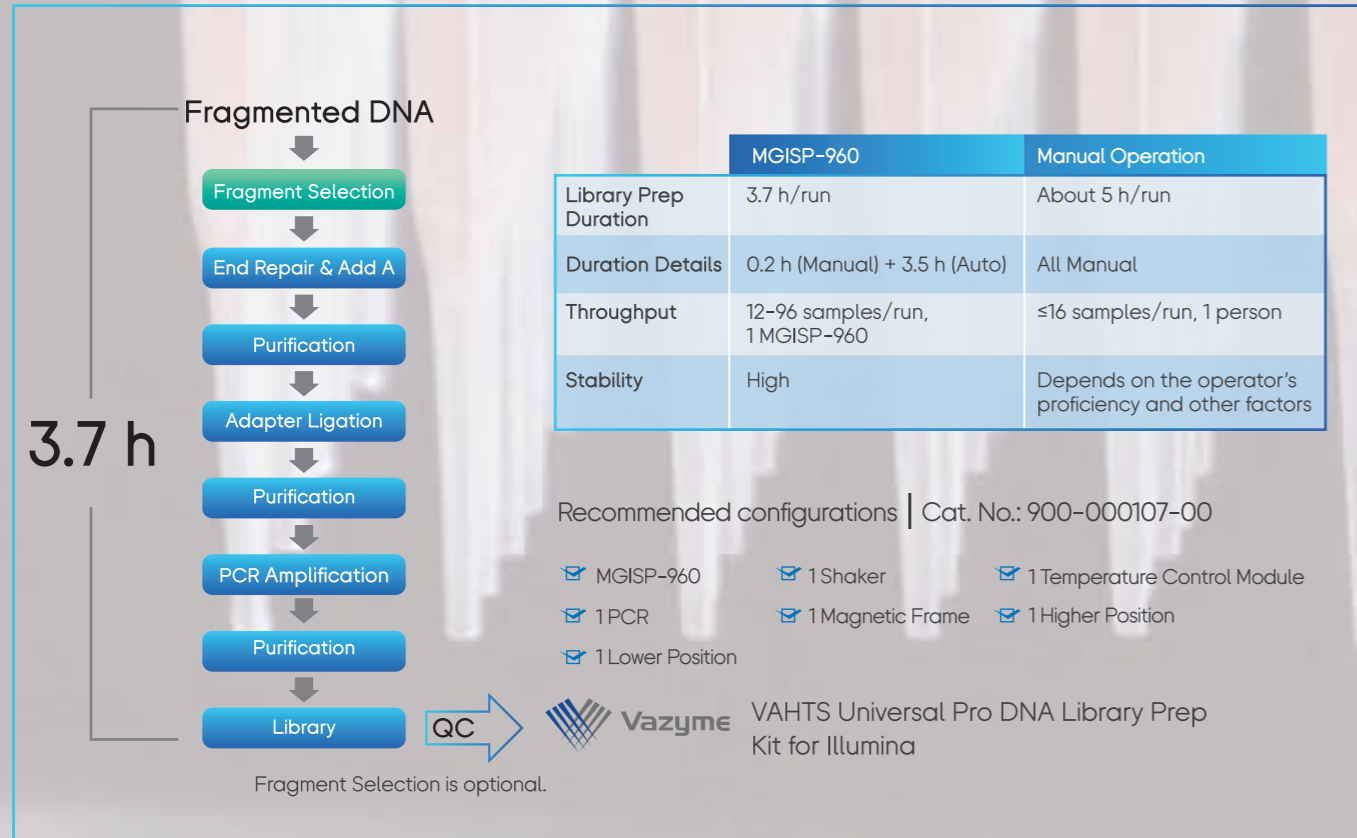
Performance



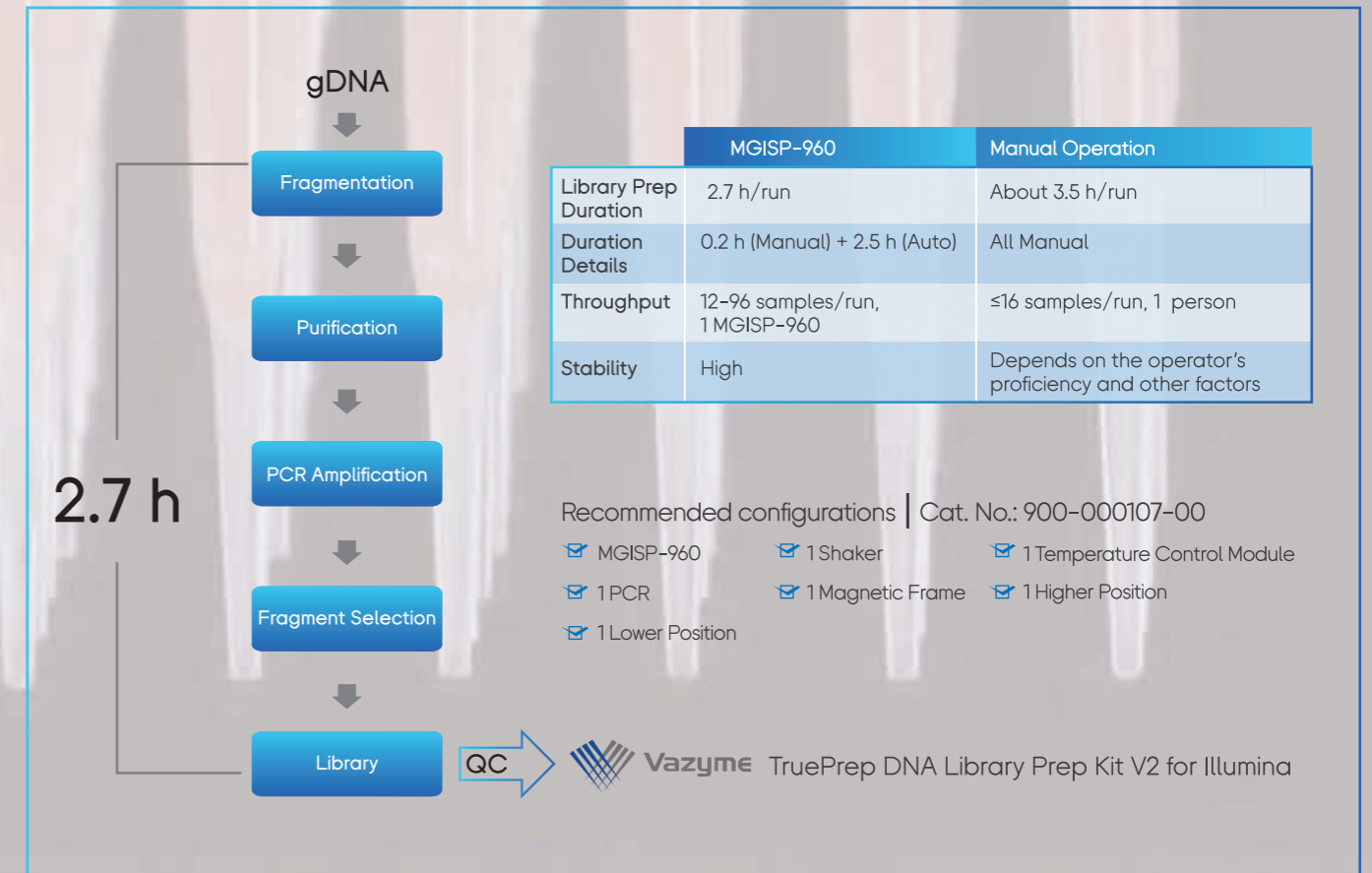
Automated testing is performed using control DNA and human DNA. The results show that qualified and stable libraries and fragments can be obtained by using MGISP-960.



Highly efficient and flexible automated library preparation

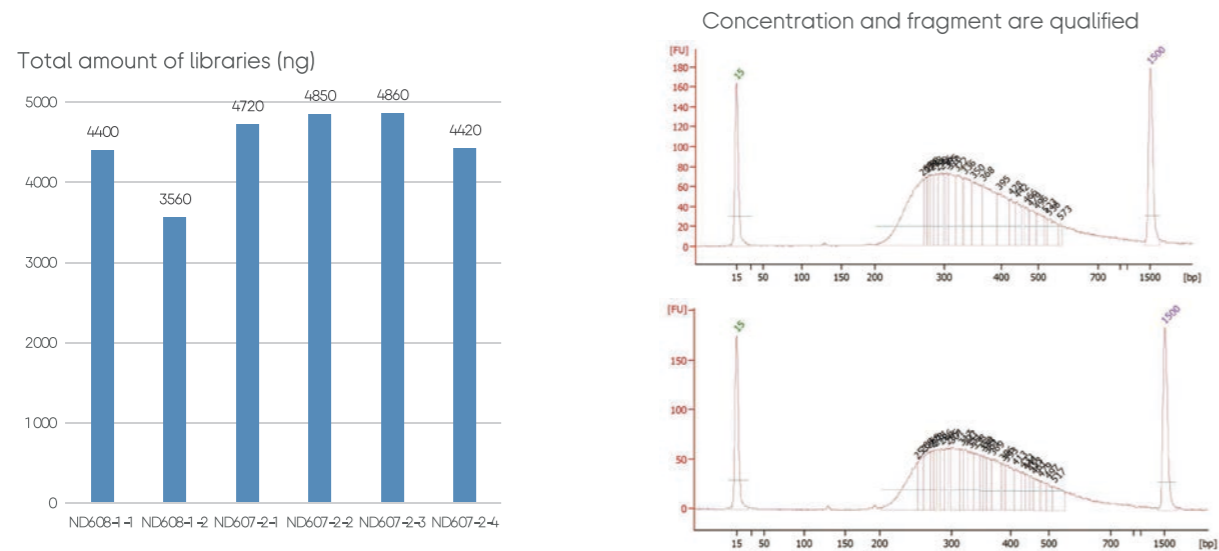


Fully automated DNA library preparation



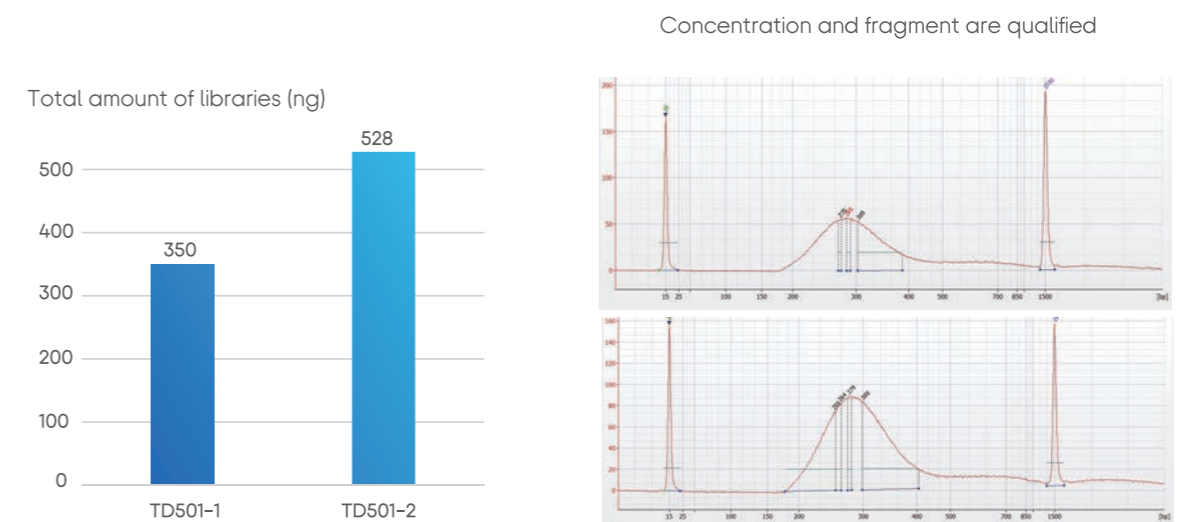
Performance

Automated testing is performed using human DNA and the test is repeated 4 times. Twice of the test is repeated in batch. The results show that qualified and stable libraries can be obtained by using MGISP-960.

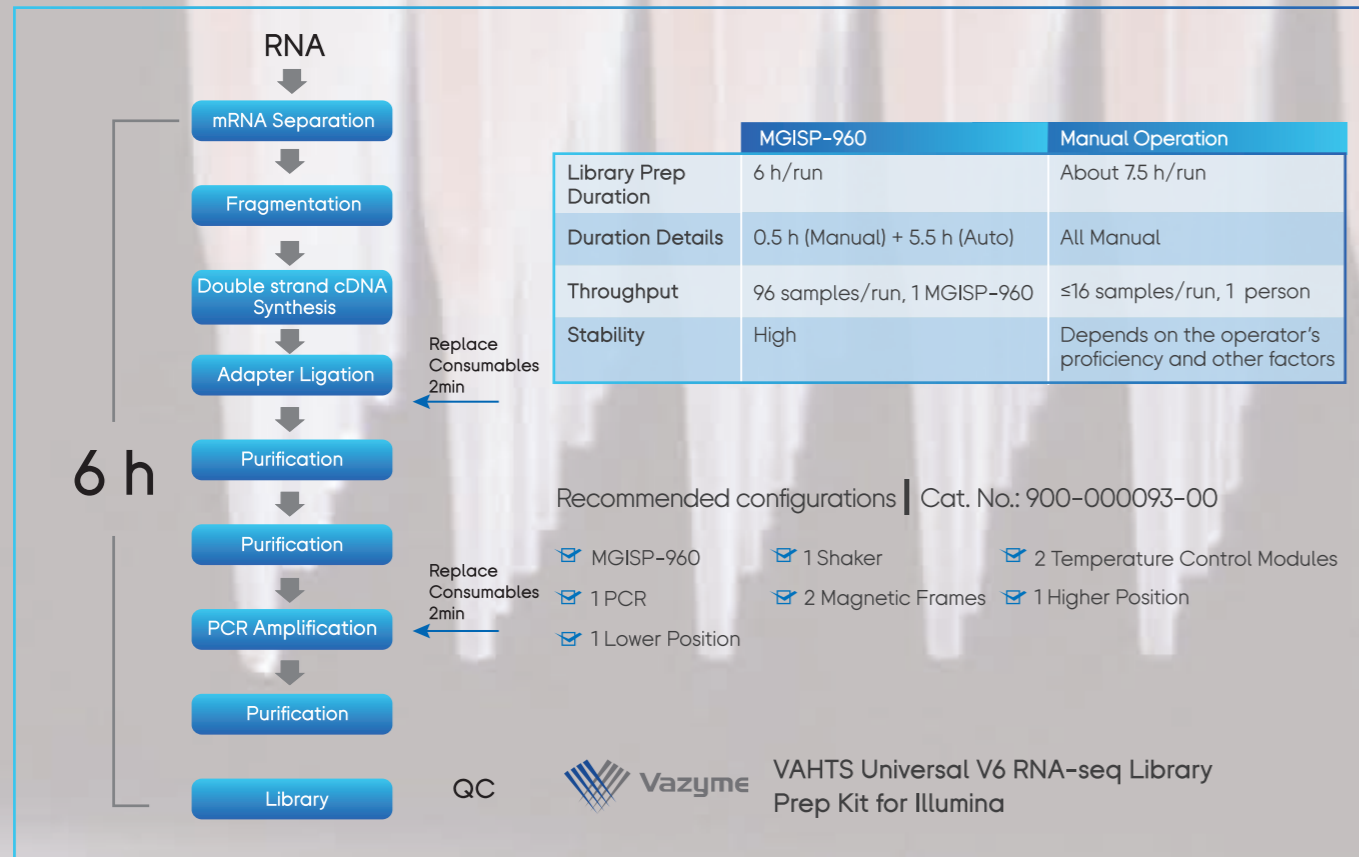


Performance

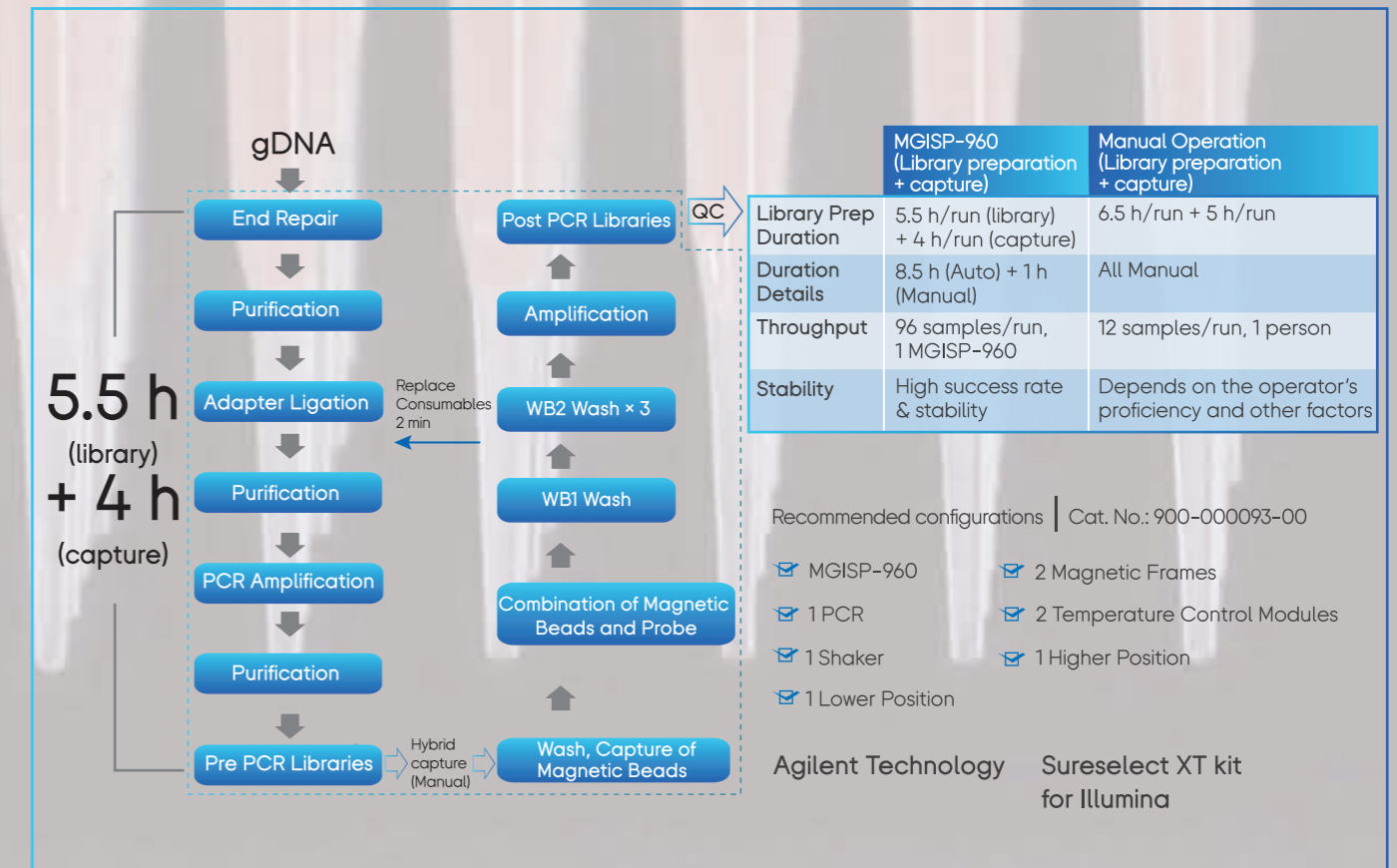
Automated testing is performed using human DNA and the test is repeated 2 times; with the input amount of 50 ng, in 9 PCR amplification cycles.



Automated RNA library preparation



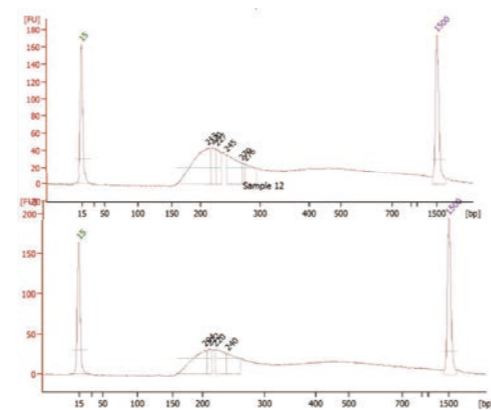
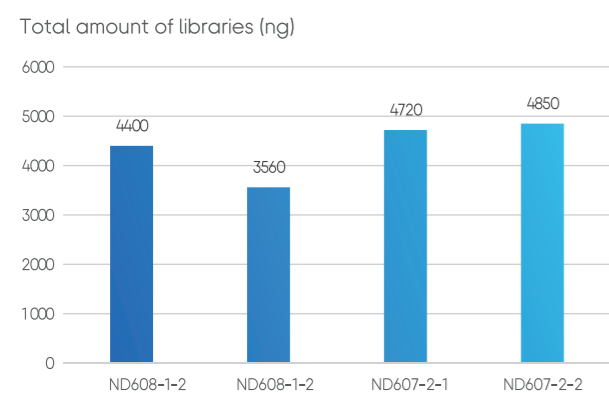
Automated hybrid capture (8x speedup)



Performance

Human total RNA (260/280=1.79, 260/230=2.34) are used for automated test, with 4 repeated tests, input amount of 1 µg, and 15 PCR amplification cycles.

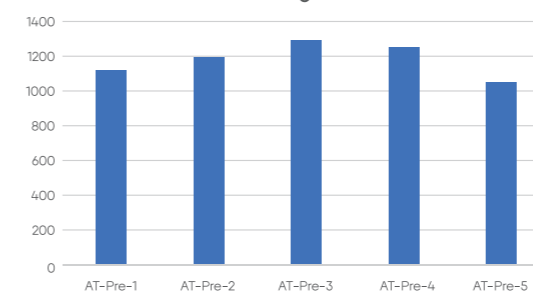
Concentration of library prep and fragment are qualified and stable



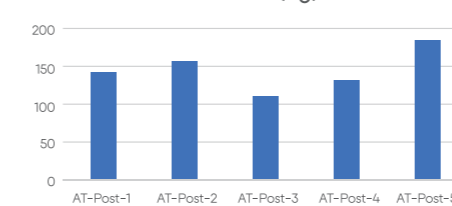
Performance

Human gDNA is used for automated test, with 5 repeated tests of library preparation. Pre-PCR and Post-PCR libraries are qualified and stable.

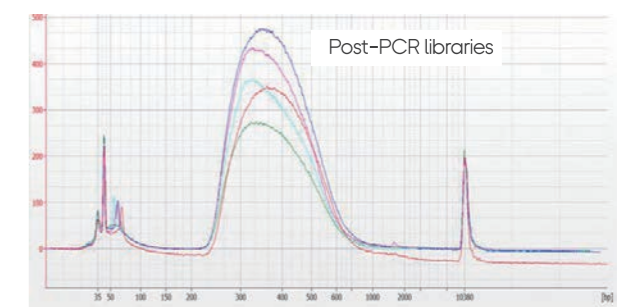
Total amount of libraries (ng)



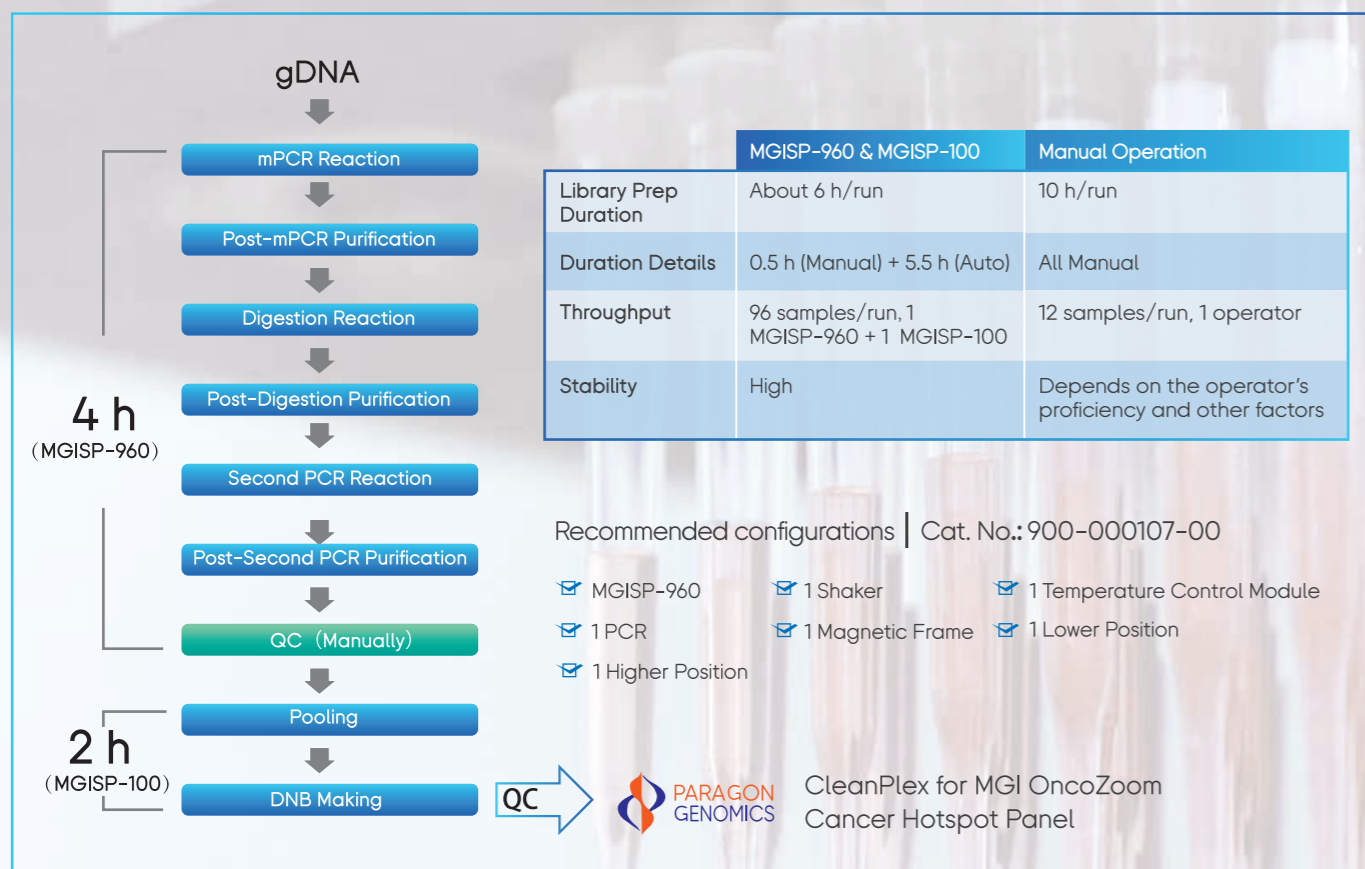
Total amount of libraries (ng)



Concentration and fragment are qualified



Automated tumor detection



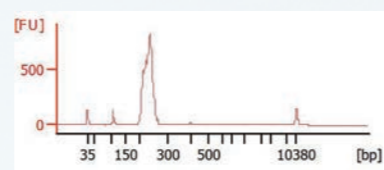
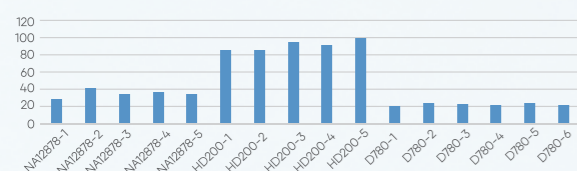
System specifications

Throughput	96 samples per run		
Sample Type	Plasma, saliva, FFPE, gDNA, WGA products, etc.		
Pipette Range	2 µL to 200 µL		
Pipette Accuracy	Volume	2 µL	200 µL
	CV	< 5%	< 1%
	Accuracy	< ±10%	< ±1%
Robotic Arm Positioning Accuracy	±0.1 mm		
Temperature Range	PCR	4 °C to 99 °C	
	Temperature Control Module	4 °C to 90 °C	
Temperature Accuracy	PCR	±0.3 °C at 55 °C	
	Temperature Control Module	±1 °C at 55 °C	
Temperature Uniformity	PCR	±0.2 °C at 72 °C	
	Temperature Control Module	±1 °C at 72 °C	
Working Environments	Temperature	19 °C to 25 °C	
	Relative Humidity	20% RH to 80% RH, non-condensing	
	Atmospheric Pressure	80 kPa to 106 kPa	
	Maximum Altitude	2000 m	
Power Requirements	Power Type	200 V to 240 V~, 50/60 Hz	
	Rated Power Consumption	Less than 2000 VA (for standard configuration)	
Net Weight	250 kg		
Dimensions	1240 mm × 740 mm × 1110 mm		

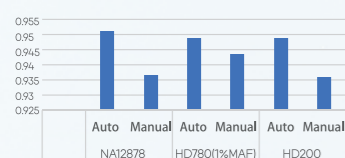
Performance

Three types of standards are used for automated test. The library preparation products for the samples are stable and qualified in concentration. The sequencing results show that capture efficiency of MGISP-960 surpasses that of manual operation, and the mutation rate test results of MGISP-960 and manual operation are consistent and qualified.

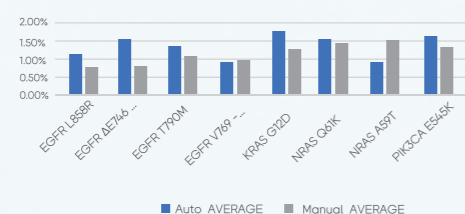
Total amount of libraries (ng)



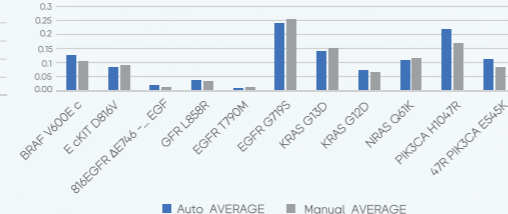
Capture_Rate



HD780(1% MAF) (cfDNA)



HD200 Standard (FFPE)



Ordering information

Model	Target market
MGISP-960	China & overseas IVD**
MGISP-960RS	China & overseas RUO

- Standard configuration includes: PCR, magnetic rack, vortex mixer, and temperature control model. We can customize the configurations depending on your needs. Before you place an order, please contact local sales representative.
- **China IVD models are not available for ordering currently.