



hermes  
**biotech**

# Product Catalogue 2023

- AIGS: the device with extraction included in cartridge
- Hermes Nanoready
- Hermes Geneready
- Hermes Genepure: extractor 32 samples



# AIGS

## Automatic Integrated Gene detection System

AIGS is the fully integrated system for fast molecular diagnostics, which combines the nucleic acids extraction and realtime PCR amplification, by using the microfluidic cartridge preassembled kit to realize the fully integrated gene data analysis for the samples. It can be widely used for many kinds of gene detection, such as the clinical diagnostic market, food safety, agriculture, army and public security.

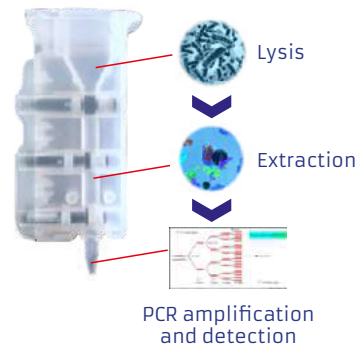
As the new generation gene detection system, AIGS realizes the fully integrated detection from sampling into the report. It is portable and can run each sample at any time and automatically transfer the data as your wish. It is a close system with no contamination and can be easily operated by the user. No need extra nucleic acid purification machine or three-zone PCR lab, by using the preassembled kits, AIGS can run as a POCT system without the complicated operation.

### Workflow

Female health, Respiratory diseases, Digestive diseases, Veterinary diseases, Genetic diseases, Food safety



GeneReady 1000



GeneReady 1000 XVI

# AIGS

Automatic Integrated Gene detection System

Workflow **GeneReady 1000**

🕒 Only one hour from sampling to report!

1st Step: Add sample, such as whole blood, sputum, puncture fluid, other samples after homogenizing. Add magnetic beads from the kit.



2nd Step: scan the cartridge to load the preset protocol directly with the sample information, run.



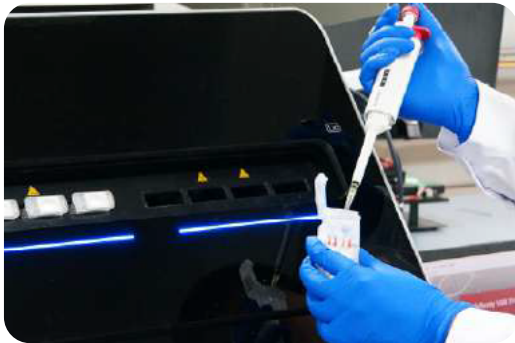
3rd Step: Automatically get the report.



# AIGS

Automatic Integrated Gene detection System

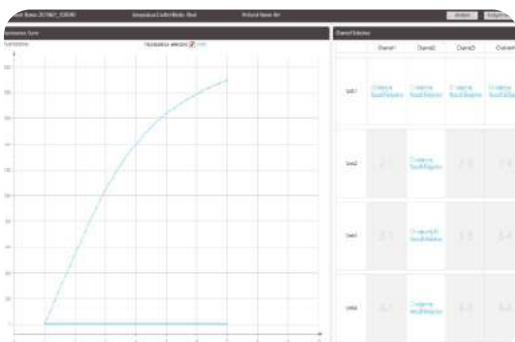
## Workflow



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3rd Step: Automatically get the report.

## AIGS

### Automatic Integrated Gene detection System

#### Features

#### A fully integrated gene extraction and detection system

Without need of a three-part PCR laboratory, on-site detection after sampling can be realized through fully enclosed microfluidic cartridge.

The ready-to-use kits do not require any dosage with the extraction reagents and detection reagents preassembled.

Result report is quickly obtained by automated nucleic acid extraction and rapid fluorescent PCR amplification and detection technology.

#### Multi-channel independent detection

Each detection unit operates independently.

5-channel fluorescent dye selection enables multiple gene detection.

GeneReady 1000: 4 individual channels realize on-demand tests,

GeneReady 1000 XVI: 16 channels divided in 4 units realize on-demand tests, no need to wait for more samples.

#### Simple and intuitive software for easy operation

It's easy to operate with the optimized software interface and customizable experimental program.

Test results can be traced and reports can be printed.

#### Simple manual operation in 2 minutes

Nothing but add sample and magnetic beads.

# AIGS

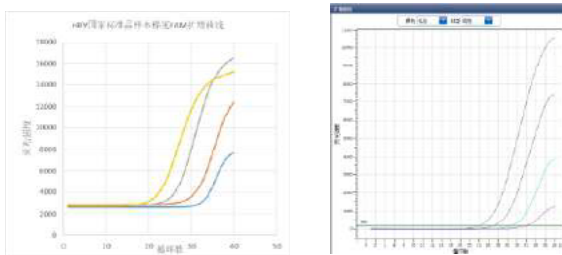
Automatic Integrated Gene detection System

## AIGS KITS

Easy operation, Microfluidic design  
Close system, No contamination

Comparison test between AIGS to traditional nucleic acid purification+qPCR detection. (H BV national standards)

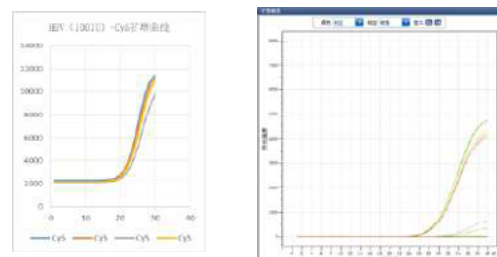
Standards gradient test



AIGS

Manual extraction+qPCR detection

Standard 100 IU sensitivity test

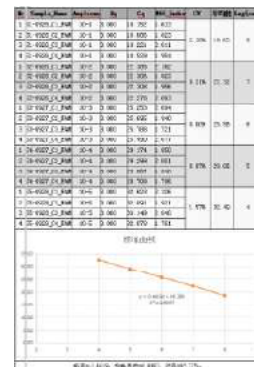
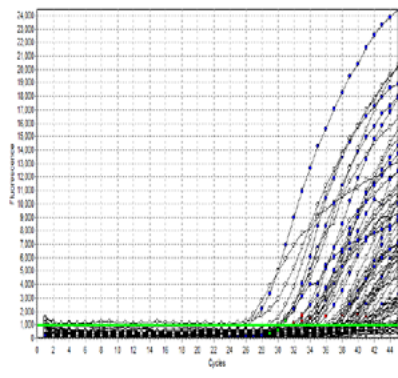


AIGS

Manual extraction+qPCR detection

GBS sensitivity test, <1 00cfu/ml,  
by cultivation gold standard bacteria counts  
(Chinese clinical standard 1 000cfu/ml)

GBS amplification efficiency 95.22%



Fluorescence detection accuracy CV: 2.78% (Chinese industrial standard 5%)

Nr	ample	Nan	Amplicon	tissue	eline	cons	aseline	slo	Plateau	Nq	Cq	Eff	Indiv	NO	indiv
1	A05	FAM	not name	undefined	3100.219		1.228	6428.260	2.569	27.749	2.256	0.000			
2	B05	FAM	not name	undefined	3203.420		0.839	6849.998	2.569	27.662	2.184	0.000			
3	D05	FAM	not name	undefined	3436.551		3.768	7658.246	2.569	27.179	1.919	0.000			
4	D07	FAM	not name	undefined	3557.834		2.216	5500.596	2.569	26.393	1.960	0.000			
5	E05	FAM	not name	undefined	3374.318		1.622	7400.482	2.569	27.286	1.833	0.000			
6	E07	FAM	not name	undefined	3603.523		5.708	5431.943	2.569	26.687	1.985	0.000			
7	F05	FAM	not name	undefined	3228.439		4.195	7628.782	2.569	27.911	2.055	0.000			
8	G05	FAM	not name	undefined	3264.503		3.921	7903.240	2.569	27.784	2.174	0.000			

# AIGS

## Automatic Integrated Gene detection System

### Parameter

Name	Automatic Integrated Gene detection System (AIGS)	
Model	08391850	08391792
Sample capacity	4 samples	16 samples
Dynamics range	1-10 <sup>10</sup> Copies	
Block temperature range	40°C- 99.9°C	
Block temperature fluctuation	≤ ±0.5°C	
Block temperature accuracy	≤ 0.5°C	
Temperature display accuracy	0.1°C	
Block ramping rate	2°C/S	
Dyes	F1: FAM,SYBER Green I; F2: HEX,VIC; F3: TAMRA,CY3; F4: TEX RED,ROX; F5: Cy5;	
Fluorescence detection repeatability	CV ≤3%	
Flourescence detection accuracy	CV ≤5%	
Flourescence Detection time	≤5S	
Input power	AC100-240V,50-60Hz,350W	AC 100-240V,50-60Hz, 1500W
User interface	LCD display	Gesture touch, PC port
Data connector	USB,ethernet, WiFi	
Size	380mmx305mmx343mm	610mm X 550mm X 570mm
Weight	16kg	60kg

Note: Model No. for animal diagnosis is GeneReady 1000V.

Please refer to the specific product leaflet.



# AIGS

Automatic Integrated Gene detection System

Gen POCT all for you

- Portable but stable
- 1 mins easy operation
- Touch screen, intuitive result
- Sampling to PCR report < 1 hour

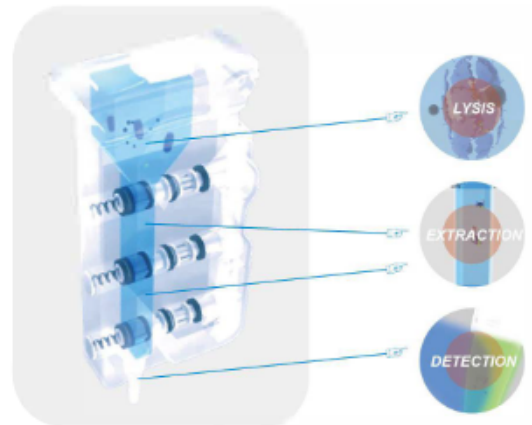


## NEW LAUNCHED



### Introduction

AIGS is the fully integrated system for fast molecular diagnostics, which combines the nucleic acids extraction and realtime PCR amplification, by using the microfluidic cartridge preassembled kit to realize the fully integrated gene data analysis for the samples. It can be widely used for many kinds of gene detection, such as the clinical diagnostic market, food safety, agriculture, army and public security.



### Applications





# AIGS

## Automatic Integrated Gene detection System

### Workflow



**1st Step:** Add sample, such as whole blood, sputum, puncture fluid, other samples after homogenizing. Add magnetic beads from the kit.



**2nd Step:** scan the cartridge to load the preset protocol directly with the sample information, run.



**3rd Step:** Automatically get the report.

### FEATURES

#### Automatic Integrated Gene detection System

Without need of a three-part PCR laboratory, on-site detection after sampling can be realized through fully enclosed microfluidic cartridge. The ready-to-use kits do not require any dosage with the extraction reagents and detection reagents preassembled.

#### Real-time Fluorescent PCR Technology, High Sensitivity

It combines the specificity and sensitivity of PCR detection technology, which shortens the window period of disease detection, and all the extracted nucleic acids from the sample enter the reaction system, which greatly improves the sensitivity.

#### From sample to report as less as in 1 hour

The whole process, including the extraction, purification, amplification and detection of sample, will be done in about one hour, which shortens the period of detection.

#### Simple and intuitive software for easy operation

It's easy to operate with the optimized software interface and customizable experimental program. Test results can be traced and reports can be printed.

#### PC control+LIS connection available

Note: Model No. for animal diagnosis is GeneReady 1000V.  
Please refer to the specific product leaflet.



# AIGS

## Order information and performance parameters

Name	Automatic Integrated Gene detection System
Model/Order No.	08391848
Light source	LED
Detector	PMT photomultiplier tube
Temperature control module	Semiconductor
Block temperature range	4°C -99,9°C
Block temperature fluctuation	≤0,5°C
Block temperature accuracy	≤0,5°C
Block max. ramping rate	≥3°C
Temperature display accuracy	0,1°C
Fluorescence detection repeatability	CV value ≤3%
Fluorescence detection accuracy	CV value ≤5%
Fluorescence detection time	≤5s
Dyes	F1: FAM, SYBER Green I F2: HEX, VIC F3: TEX RED, ROX F4: CY5
Noise	≤60dB
Display	7-inch color touch screen
Power supply	AC100-240V, 50/60Hz, 120W
Data connector	USB, WiFi, Network cable
Size	Width 190mm* Length 278mm* Height 343mm
Net Weight	6kg

# NanoReady Touch

Micro volume spectrophotometer

## Features

### Large size color touch screen:

Built-in 7-inch high-resolution color touch screen for more detection information, all operations can be done on the screen.

### Wider detection range:

The 0.03 mm minimum detection path length, combined with a new generation of spectrometers, increases the maximum detection concentration to 27,500 ng/μL and the lowest detection concentration as low as 0.2 ng/μL dsDNA.

### Vary models for your choice:

According to different demands, you can choose different models of products, the full wavelength or the fixed wavelength, micro volume or cuvette, to meet the flexible detection needs. The cuvette module has a heating stirrer function.

### Customizable wavelength:

Built-in spectrometer, fixed wavelength model, can be upgraded to any wavelength configuration in the wavelength range according to your needs.

### Light status prompt:

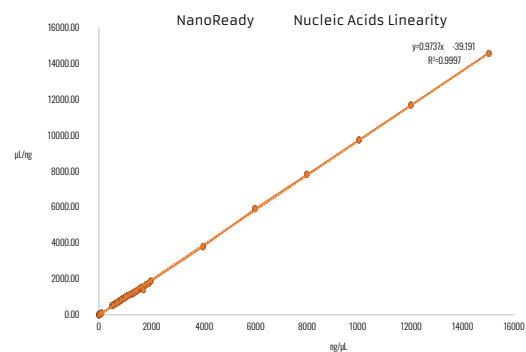
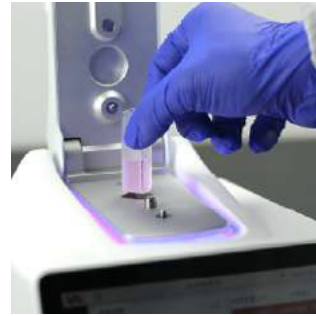
The lighting strip around the test stand flashes with different states to show the detection process straightforwardly.

### Android operating system:

The machine has built-in operating system and detection software, without need a computer. Graphical touch operation is more in line with user friendly design and improves work efficiency.

### Stable and reliable detection value:

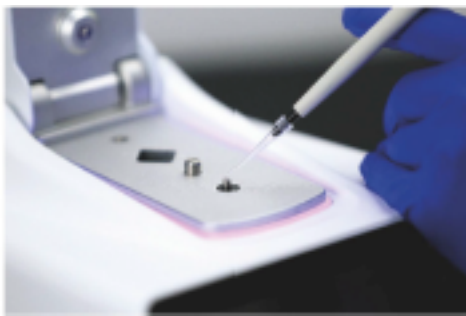
Both low concentration and ultra-high concentration of nucleic acid can be stably and accurately detected.



# NanoReady Touch

Micro volume spectrophotometer

Nano Ready Touch series Micro volume (UV-Vis) spectrophotometer with built-in 7-inch color touch screen, can complete all detection functions without connecting a computer, display test results in real time, store historical data, and export to a computer. The Android operating system, optimized for the touch operation habits, improves the operating feelings. The integrated design and compact size are ideal to save the space in the crowded laboratories, or as the in-vehicle mobile inspection device. It can be applied to the concentration detection of nucleic acids, proteins, bacterial cell cultures, etc., as well as the absorbance measurement of unknown samples.



Micro Volume samples  
low to 0.5uL

Fastest detection time:  
5 seconds



Wider detection concentration  
range: 0.2-27500 ng/μL

Bigger detection range  
covering UV visible: 185-910 nm

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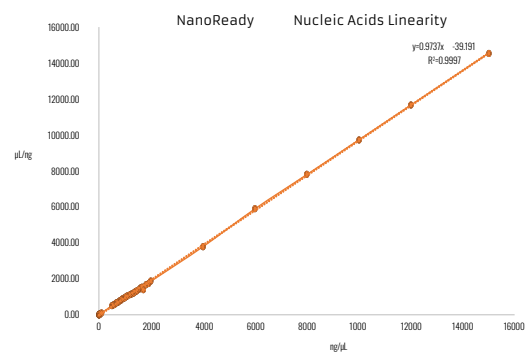
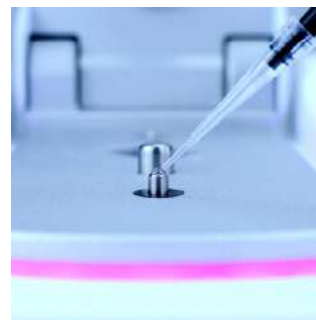
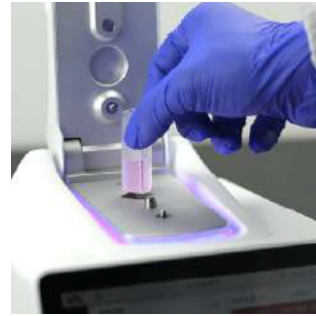
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# NanoReady Touch

Micro volume spectrophotometer

## Parameter

Model	08391800	08391801	08391798	08391799
Detector	2048-element CCD linear image sensor			
Light Source	Xenon flash lamp			
Minimum Sample Volume(μL)	0.5			
Pathlength(mm)	0.03, 0.05, 0.1, 0.2, 1.0 auto-ranging			
Wavelength Upgrade	NA		Available	
Wavelength Range(nm)	185-910		Default 230,260,280,350,600, optional 185-910 for customized	
Wavelength Accuracy(nm)	±1			
Spectral Bandwidth	«:1.8(FWHM at Hg 253.7nm)			
Photometric(Abs)	0-550 (10mm equivalent)			
Measurement Repeatability	0.002(1 mm path),or 1%CV,whichever is greater			
Photometric Accuracy	±2%(at 0.86A at 257 nm)		3%(at 0.64A at 350 nm)	
Limit of Detection	Pedestal:2ng/μL dsDNA,0.06mg/mL BSA,0.03mg/ml IgG			
Maximun Concentration	Pedestal:27,500ng/μL dsDNA,820mg/mL BSA,400mg/ml IgG			
Measurement Time(S)	«:5			
Cuvette Temperature(°C)	37±0.5	NA	37±0.5	NA
Cuvette Stirring	10-900RPM 10 Speeds	NA	10-900RPM 10 Speeds	NA
Cuvette Photometric	0-1.5A (10mm)	NA	0-1.5A (10mm)	NA
Cuvette Limit of Detection	0.2ng/μL dsDNA 0.006mg/ml BSA 0.003mg/ml IgG	NA	0.2ng/μL dsDNA 0.006mg/ml BSA 0.003mg/ml IgG	NA
Display	7 inch, 1280x800high-definition LCD.Multipoint capacitive touch,Gesture recognition			
Operating System	Android			
Internal Storage	32GB flash memory			
PC Software Requirements	Windows 7:32/64 bit,Windows8/10:64 bit			
Data transfer & PC connecting	USB,Wifi			
Supply	AC11 0V-220V, 50Hz/60Hz(power adapter)			
Net Weight	2.3KG	2.2KG	2.3KG	2.2KG

## NanoReady

### Micro UV-Vis Spectrophotometer

NanoReady is a conventional laboratory equipment, not only widely used in molecular biological experiments, such as DNA, RNA, protein detection, but also used in absorbance detection for the general substance analysis. It includes three common detections to the nucleic acids, nucleic acid markers and proteins.

The variable pathlength of NanoReady realizes both the minimum sample volume detection as low as 0.5 $\mu$ L, suitable for precious samples, and the detection to the high concentration samples without dilution at all. Including the liquid drop, it builds in the standard cuvette detection module for more use.

### Features

#### High sensitivity

2028 linear CCD detection unit, new generation product, has higher sensitivity, accuracy as well as repeatability.

#### Stability for the long life

Long-life xenon flash lamp of Hamamastu ensures stability of detection and the long life of instrument.

The lifting detection base with sliding bearing structure has high precision, not easy to damage.

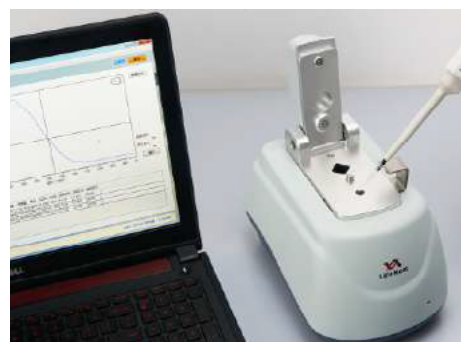
#### Variable pathlength

The mini. detection pathlength is 0.05mm; samples with high concentration can be detected directly without dilution. The max.  $\sim$ 15000ng/ $\mu$ L dsDNA, the smallest detection volume of precious samples is 0.5 $\mu$ L.

The user-defined settings are allowed if the pathlength is more than 1 mm. The instrument has flexible and convenient detection function.

#### Ultra wide wavelength range

With continuous wavelength range as 185-910nm, the instrument can detect various samples through selecting any band. It adapts to a variety of detection requirements with wide range of near infrared wavelength.





# NanoReady

Micro UV-Vis Spectrophotometer

## Accurate pathlength

The stepper motor combined unique double track technology (DPTL), allows the precision of optical pathlength as 0.001 mm, thus to achieve highly repeatability of absorbance detection.

## Cuvette detection mode

The cuvette detection mode comes with magnetic stirring function. User can set the heating function and stirring speed for dynamic analysis detection. And the user can define different pathlength, such as 1 mm, 2mm, 5mm, 10mm. (for Model:FC-1100 only)

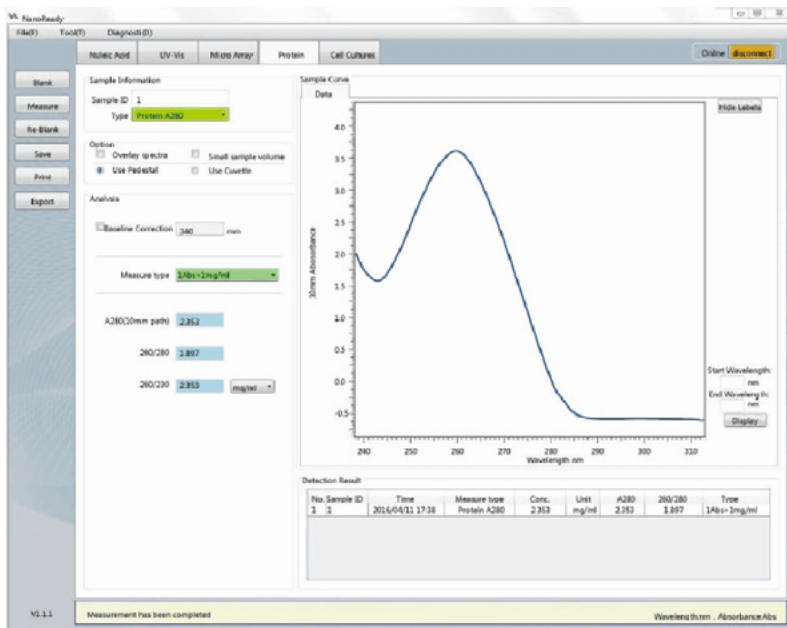
## Unique designed pipette holder for easy sample adding

According to different demands, you can choose different models of products, the full wavelength or the fixed wavelength, micro volume or cuvette, to meet the flexible detection needs. The cuvette module has a heating stirrer function.

## User-friendly software

The simple designed interface makes the software user friendly. It will save the detection data and name file automatically, and it is easy to review the files. There is no need to worry about the loss of experimental data.

Set U disk upgrade interface, and maintain the latest and most complete function at any time.



## Wireless connection

WiFi connected PAD to control the detection and results display and storage without need the cables. Dynamic detection realizes remote controlling and timing reading the results without manual intervention.

# NanoReady

## Micro UV-Vis Spectrophotometer

### Multi-functions

- Nucleic acid detection  
Built-in common calculation formula of dsDNA,ssDNA,RNA,Oligo-DNA,Oligo-RNA, can get the concentration and purity of samples automatically.
- UV visible custom scanning  
In the full wavelength range, set the detected wavelength through increasing or decreasing wavelength with 1 nm as expected.
- Protein detection  
can detect the concentration of protein solution, or detect protein concentration of dye marker. Built-in common detection methods of BCA,Bradford,Lowry,Pierce 660nm.
- Nucleic acid fluorescence marker detection  
Preinstall extinction factor of commonly used fluorescent dyes of dsDNA, ssDNA, RNA, Oligo-DNA, Oligo-RNA.
- Cell detection  
Can detect absorbance value at 600nm autom-atically. Meanwhile, it can detect absorbance value at any band under set wavelength range.

### Parameter

Model		08391796	08391797
Detector		2048-element liner CCD array	
Mini.Sample Amount (ul)		0.5	
Mini. Length (mm)		0.05	
Wavelength Range (nm)		185-910	
Wavelength Accuracy (nm)		±1	
Spectral Resolution (nm)		1.8(FWHM at Hg 253.7nm)	
Absorbance Accuracy		0.002 (1 mm optical length)	
Absorption Accuracy		2%(at 0.86A at 257nm)	
Limit of Detection		2ng/ l dsDNA	
Max.Detection Concentration		15000ng/ l dsDNA	
Detection Time		5 Sec.	
Curette Mode	Heating Temp.( )	37±0.5	null
	Mixing Speed (RPM)	150-850	null
	Optical Length (mm)	10,5,2, 1	null
	Limit of Detection	0.4ng/ l dsDNA	null
	Max. Detection	750ng/ l dsDNA	null
Transfer &PC connecting		USB,Wi-Fi	
Software Update		USB direct update	
Accessory		Pipette holder	
Power		1 00V-240V 50HZ/60HZ (Power adapter)	
NET Weight		2.1KG	2.0KG

# GeneReady

## Biological Sample Preparation System

GeneReady Plus is an open, fast, efficient, high-throughput biological sample preparation system that combines functions of high-temperature inactivation, low-temperature crushing, centrifuging. The new high-temperature inactivation program can inactivate a variety of pathogens with one key, avoiding biohazards in the extraction process. The device can rapidly process 24 samples at the same time; by matching different kits, it treats samples with cell crushing from different sources (including clinical samples, soil, plant & animal tissues/organs, bacteria, yeast, fungi, spores, paleontological specimens, etc.), quickly releasing their original DNA, RNA and protein for the subsequent extraction and purification.

## High temperature Inactivation



### Reduce the risk of infection

One-key temperature inactivation to eliminate bio-safety risks of pathogens, Self-disinfection to prevent cross-contamination, setting up procedures according to relevant standards.

### Keep the sample activity

In the low-temperature mode, samples can be mixed evenly at low temperature, and the decrease of biological activity of samples can be avoided effectively.

### Suitable for more samples

In the heat-up mode, the device can be used for sample incubation, etc. And the 4D crushing technology with a continuous operation function (up to 99 minutes), improves nucleic acid or protein yields. Low-speed ultra-long time continuous operation function, is particularly suitable for genome preparation.

### Improve the operating experience

5.7-inch color touch screen, simple and clear. The program setup is simple and convenient, and can run continuously and automatically. The cover with the window-through design, helps to observe the internal operation of the device with a large volume sample processing. Centrifugal function, without liquid nitrogen and other hazardous materials for an auxiliary processing. Electromagnetic lock protection and alarm function bring safety and easy maintenance. Brush less variable-frequency motor, no carbon particles, no need for a carbon brush replacing.

# GeneReady

## Biological Sample Preparation System

### Wide Application

- 0 Suitable for all kinds of plant tissues including roots, stems, leaves, flowers, fruits, seeds and other samples
- 0 Suitable for all kinds of animal tissues including brains, hearts, lungs, stomachs, livers, thymuses, kidneys intestines, lymph nodes, muscles, bones and other samples
- 0 Suitable for fungi, bacteria, viruses and other samples
- 0 Suitable for food and drug composition analysis and detection

### Parameter

Parameter	Name	Ultimate Biological Sample Preparation System ( Fast low temperature centrifuge function)	Ultracool Biological Sample Preparation System ( Fast low temperature function)
Model		08391794	08391795
Mini.Sample Amount (ul)		24X2ml	24X2m, 12X5m, 4x15ml
High-temperature inactivation function		YES	
Crushing speed of high-temperature inactivation		2.00 - 2.50m/s, 0.05m/s setting adjustable	
Temp. control range of high-temperature inactivation		37-95°(	
Low-temperature crushing function		YES	
Low-temperature crushing speed		2.00 - 6.50m/s, 0.05m/s setting adjustable	
Temp. control range of low-temperature grinding		0-37°C	
Centrifuging function		YES	NO
Centrifuging speed		1000-6000rpm	-
Temp. control range of centrifuging		0-37°C	-
Noise level		S54db	
Program quantity		Max. 99	
Cycle quantity		Max. 99	
Single max. operation time		99min 59s	
Display screen		5.7' touch screen	
Alarm function		Intelligent fault diagnosis & alarm function	
Lid lock protection function		YES	
Dimension		500X370X410mm (LXWXH)	
Power supply		AC 200-240V 50/60Hz	
Net weight		34KG	33KG

# GeneReady

## Biological Sample Preparation System

GeneReady homogenizer is an open, fast efficient high-throughput sample preparation system. It can deal with max. 24samples per run. By using with our optimized reagents&kits, the GeneReady system can dispose various sources of samples, including soil, plant tissue, animal organs, bacteria, yeast, fungus, spore, paleontology specimen,etc. GeneReady is your best laboratory assistant for multiple research activities, such as pharmaceutical, biochemistry, environmentology, geology and so on.



GeneReady Series include three models for your choice:

- > **Standard:** homogenizer
- > **UltraCool:** cooling homogenizer
- > **Ultimate:** cooling homogenizer with centrifuging function



24\*2ml for all model of Gene Ready



4\*15ml for standard & Ultracool only



12\*5ml for standard & Ultracool only

## Description

With its patented cooling function, the system can break the cytoderm rapidly, especially for the difficult and sensitive samples, such as RNA or protein, so to hold on the longer processing time at lower temperature to release the genomic DNA, RNA or proteins easily. It adopts the advanced microprocessing technology to ensure the exact temperature control.

The Ultimate model, with the centrifuging function, enables the machine to centrifuge the sample after the first step of sample preparation so to get the target easily for you next step of experiments of the extraction and purification.

With the 5. 7' colorful touch screen display, it is intuitive and convenient to set the protocols and run up to 10 programs directly from the shortcut of the interface.

By using the enhanced locks, it is easy to change and fix the rotators for different kinds of sample tubes.

Gene Ready is an open platform for various customized reagents. However the optimized Gene Ready kits provide the ready to use solution for your experiments.

# GeneReady

Biological Sample Preparation System

## Easy and fast solution for your sample preparation



GeneReady instrument

+



optimized consumables & kits

+



Proper programming parameters

=

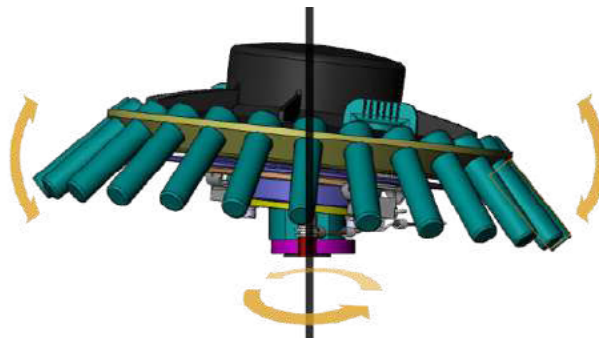
### Best result!

### GeneReady grinding principle

- > Physical method
- > Chemical method
- > Biological method

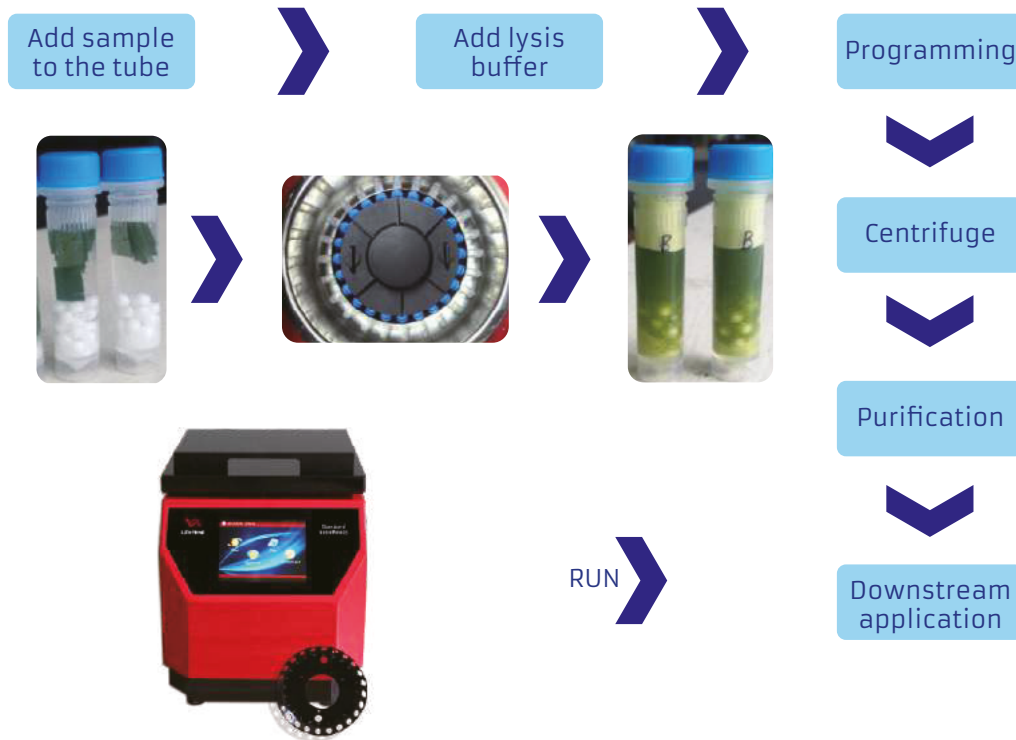
By three-dimensional high-speed motion, grinding beads shear and grate each other, and using formula reagents to lyse cell wall/membrane as well as to protect the nucleic acid protein, thus to achieve the extraction of target DNA, RNA or protein. Suitable for fungi, bacteria, viruses and other samples

Suitable for food and drug composition analysis and detection



# GeneReady

Biological Sample Preparation System

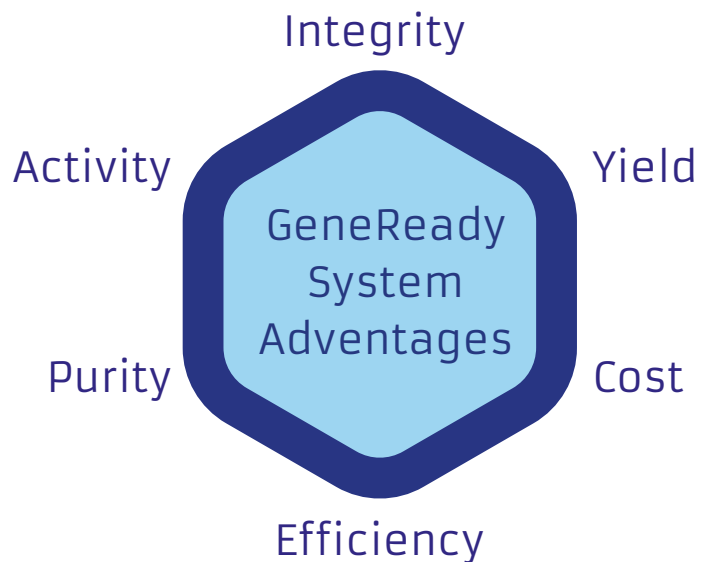


## Applications

- > Nucleic acid separation and purification
- > Sample lysis and preparation
- > Proteins Sample lysis and preparation

## Fields

- > Cancer
- > Agriculture
- > Forensic
- > Infectious diseases
- > Genomics
- > Metabolomics
- > Food Science
- > Plant Pathology
- > Proteomics
- > Soil and Environmental Sciences
- > Microbial environmental genomics





# GeneReady

## Biological Sample Preparation System

### Features

- > Time saving
- > Laborsaving
- > High speed
- > High-throughput
- > High dependability
- > Low noise 58db: brush frequency conversion motor used
- > Safe, No contamination, Maintenance free
- > No need hazardous material such as liquid nitrogen
- > No need consumable parts
- > Stainless steel chamber, easy to clean
- > Complete isolation among samples to eliminate contamination

### Ultimate - Max. 6000rpm

- > Innovative axis: shaking & centrifuging
- > Centrifuge soon after homogenization to get the supernatant directly
- > A self-governed low-speed refrigerating centrifuge for specific samples

### Sustaining up to 30min

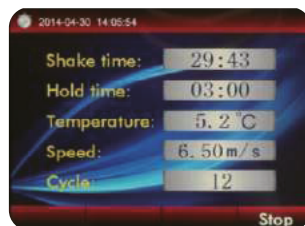
- > Longer working time guarantees the sample yield for hard samples

### Low to 2m/s

- > Especially good for genome preparation



Easily fix the samples by a gently lock



Intuitive program



5.7' big colorful touch screen

# GeneReady

Biological Sample Preparation System

## Parameter

Name	Gene Ready Ultimate (Fast low temperature centrifuge function)	Gene Ready Ultra cool (Fast low temperature function)	Gene Ready Standard
Model	08391795	08391795	08391855
Light Source	24X2ml	24X2ml, 12X5ml, 4X 15ml	
Minimum Sample Volume(μL)	2.00-6.50m/s, 0.05m/s change step		
Pathlength(mm)	YES	YES	-
Wavelength Upgrade	0-37° C	0-37° C	-
Wavelength Range(nm)	YES	-	-
Wavelength Accuracy(nm)	Max. 6000RPM	-	-
Spectral Bandwidth	99		
Photometric(Abs)	Max. 99		
Measurement Repeatability	99m59s		
Photometric Accuracy	±2%(at 0.86A at 257 nm) 3%(at 0.64A at 350 nm)		
Limit of Detection	Pedestal:2ng/μL dsDNA,0.06mg/mL BSA,0.03mg/ml IgG		
Maximun Concentration	Pedestal:27,500ng/μL dsDNA,820mg/mL BSA,400mg/ml IgG		
Measurement Time(S)	≪:5		
Cuvette Temperature(° )	37±0.5	NA	37±0.5
Cuvette Stirring	10-900RPM 10 Speeds	NA	10-900RPM 10 Speeds
Cuvette Photometric	0-1.5A (10mm)	NA	0-1.5A (10mm)
Cuvette Limit of Detection	0.2ng/μL dsDNA 0.006mg/ml BSA 0.003mg/ml IgG	NA	0.2ng/μL dsDNA 0.006mg/ml BSA 0.003mg/ml IgG
Display	7 inch, 1280x800high-definition LCD.Multipoint capacitive touch,Gesture recognition		
Operating System	Android		
Iternal Storage	32GB flash memory		
PC Software Requirements	Windows 7:32/64 bit,Windows8/10:64 bit		
Data transfer & PC connecting	USB,Wifi		
Supply	AC11 0V-220V, 50Hz/60Hz(power adapter)		
Net Weight	2.3KG	2.2KG	2.3KG



# GeneReady

Kits optimized for your experiments



Kits include beads, tubes & lysis buffer

## Features

- > Strong zirconia crystal beads
- > DNase & RNase Free self-sealing tubes
- > No hazard formula, such as Phenol chloroform
- > DNA/RNA protective reagents included



## Performance of kits

- > Storage stability
- > Repeatability
- > RNA Extraction
- > Long fragment
- > Tissue DNA extraction
- > Bacteria DNA extraction
- > Plant DNA extraction
- > Bone DNA extraction
- > Low volume sample extraction



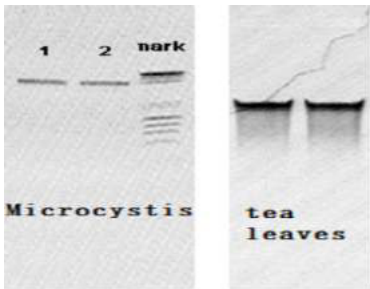
# GeneReady

Kits optimized for your experiments

## Examples

Take 100mg sample -Add to the grinding tube -Add the appropriate amount of lysis buffer- Program the parameters in the GeneReady instrument- Run - Take out the sample tubes for centrifuging to get the supernatant - Extract & purify the nucleic acids by magnetic beads - Test the concentration of the nucleic acids by UV vis spectrophotometer and agarose gel electrophoresis.

### Plant Tissue PIII (DNA)



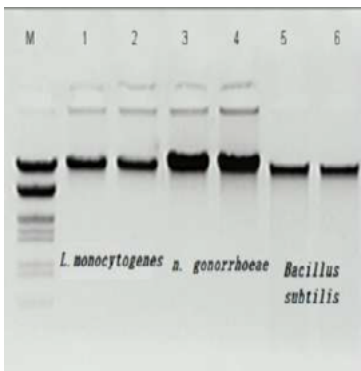
Sample	OD260/280	Concentration, ng/ul
Microcosmic	1.91	29.35
	1.9	28.4
Tealeaves	1.865	55.5
	1.74	58.8

### Animal Tissue PI/ (DNA)



Sample	OD260/280	Concentration, ng/ul
Fresh bone	1.76	437.5
	1.775	416.5

### Microorganism Tissue PI/ (DNA)



Sample	OD260/280	Concentration, ng/ul
Listeria Monotonousness	1.91	270
	1.93	270.4
Coccus	1.87	369.9
	1.85	370
Bacillus sublimity	1.86	200.1
	1.86	193.2

# GeneReady

Kits optimized for your experiments



## Specifications

Kits name	Concentration, ng/ul
GeneReady Plant P I	Leaves, stems, buds, etc.
GeneReady Plant P II	Roots, stems, woody plants phloem, tubers, root tips, seed germ, large fruiting fungi, etc.
GeneReady Plant P III	Special samples such as polysaccharide polyphenols, algae, pine needles, tea, heather, etc.
Gene Ready Tissue P	Common animal tissue, cell culture, etc.
Gene Ready Tissue P II	Hair, cartilage, skin, fresh bones, etc.
Gene Ready Tissue P III	Old bone
GeneReady Microbe P I	Common bacteria such as gram-negative bacteria
GeneReady Microbe P II	Yeast, Gram-positive bacteria, microbial, etc.
GeneReady Plant RNA	Plants, fungi mycelium and fruiting body
Gene Ready Tissue RNA	Ordinary animal tissues, cultured cells, blood
GeneReady Microbe RNA	Bacteria, microbial, etc.

### Notes:

For 2ml rotor only, please contact us for the kits of 15ml/5ml rotor.

# GeneReady H-Max

## High-throughput horizontal tissu grinder

H-Max is a multifunctional necessary assistant for laboratory sample preparation. It can grind and homogenize many kinds of samples no matter hard, moderate hardness or soft, so that the processed sample can meet with the coming experimental use for the laboratory. By using different kinds of tanks, Gene Ready H-Max can deal with the dry grinding, wet grinding or frozen grinding, including cracking the cell wall or extracting the DNA/RNA. It is widely used in the field of biomedicine, agriculture, chemicals, RoHS, toys, environmental test, QC, education, etc.



### Description

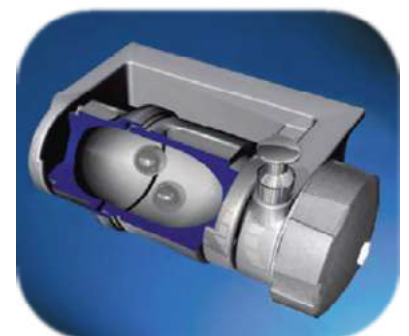
- > High efficient (frozen) grinding for the plant and animal tissue
- > Breaking and cracking of bacterial and yeast cell wall
- > DNA & RNA extraction of high-throughput plant and animal tissue
- > Sample well homogenized
- > Grinding samples for food, feed, Chinese herbal medicine, etc.
- > Mineral and mineral samples grinding and homogenizing
- > Sample preparation for physical and chemical analysis
- > Preparation of Three - Generation Sequencing Amplified Samples
- > Function: Crushing, mixing, homogenization, cell disruption and frozen grinding
- > Application field: Agriculture, Biology, Chemistry, Plastics, Building Materials, Electronics, Environment, Food, Glass, Ceramics, Medicine, Minerals and Metallurgy, etc.
- > Sample hardness: hard, moderate hardness, soft, brittle, elastic, including fibers, etc.

### Features

Accurate and fast.

Advanced invented horizontal beads reciprocating grinding.

One pair of high speed amplitude of vibration arms guarantee the instrument to provide enough force to grind the samples in the tubes by collision with the beads in the tube. It can grind, homogenize, smash or mix the samples within seconds, and then the processed sample can reach to 5 $\mu$ m.





# GeneReady H-Max

High-throughput horizontal tissue grinder

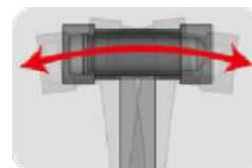
Safe and convenient. The most economic grinding method to deal with the frozen samples.

By using the specific tank, the GeneReady H-Max can deal with the frozen samples or heat sensitive samples. The special designed rolling cap tank can be immersed in liquid nitrogen and keep the good sealing to the sample so to resist the water from the air into the sample to become the condensation.



## Unique technology

- > Most effective reciprocating horizontal shaking grinding principle to guarantee the effective crashing and mixing the samples
- > Fast and easy loading the samples
- > Safe locker
- > Automatic locating the tanks



## Wide range of application

GeneReady H-Max can process wide range of samples even though the materials with fibers and it can process the hard samples such as root or seed of plants, tissue, bone or fur of animals, plastics, minerals, soils, bacteria and yeast. The grinded samples are mostly used for the extraction of DNA/RNA, proteins, or for trace analysis, and other kinds of coming experiments requiring for nanometers or fine refined samples.



## Working procedure: Easy and Fast

Add sample ----Add grinding beads ----Add lysis buffer (as required)---- Seal the lid and locate into the tank/adaptor ----Assemble the tank/adaptor into the instrument---- Strength and lock---- Close the protection cover---- Setting the programs---- Press to run (typically 2mins) ----Sample for use.





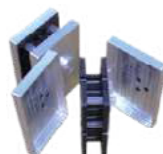
# GeneReady H-Max

High-throughput horizontal tissu grinder

Flexible accessories for different kinds of samples



+ 2\*25ml/50ml Hard stainless steel grinding tube tank



+ 2\*28\*2.0ml tube adapter



+ 2\*12\*5.0ml tube tank



+ 2\*96well plates adapter



+ 2\*4\*5ml stainless steel tube tank

## Parameter

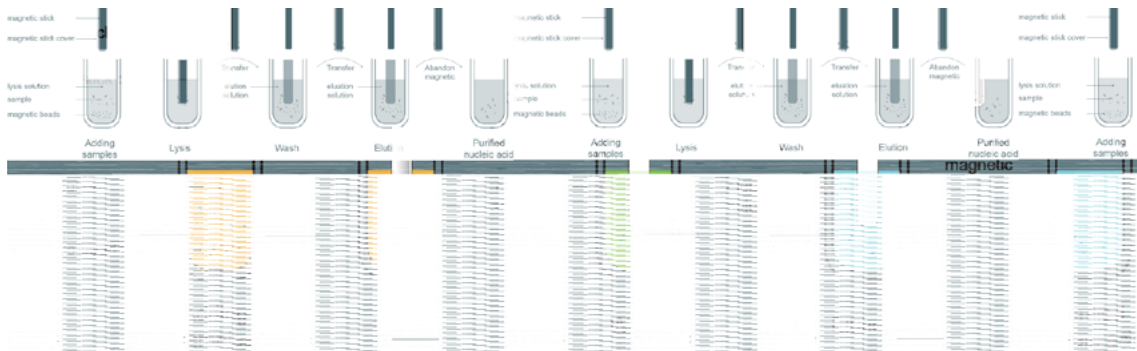
Model	08391854
Working principle	Impact force, friction force
Moving method	Horizontal reciprocating oscillating ball grinding
Max. sample size	8mm
Grind sample	-5µm
Typical time	2minutes
Grinding model	Dry grinding, wet grinding, frozen grinding
Frozen grinding	Adapters and grinding tanks can be immersed in liquid nitrogen, the temperature of the sample can be as low as to -192°C
Grinding plates	2
Sample capacity	2*96well plates, 2*28*2.0ml EP tube, 2*12*5.0ml tube, 2*4*5ml stainless steel tube, 2*25ml Hard stainless steel grinding tube, 2*50ml Hard stainless steel grinding tube
Display	Digital display
Shaking frequency	100-1800 reciprocation/min, continuous and adjustable
Grinding timing	1s-99m59s
Pause timing	0-99s
Programming function	grinding time, pause time and speed
Drive	brush less motor
Power	11 0V-115V/60Hz 220V-240V/50Hz, 200W
Size	320*200*460mm
Net Weight	26kg

# GeneReady BSH-32

## Automatic Nucleic Acid Extraction System

Gene Ready BSH-32 is a flexible and efficient fully automatic nucleic acid extraction instrument that is easy to operate. With the magnetic bead based nucleic acid extraction kits, it can easily and quickly extract high-quality, high-yield, and high-quality DNA or RNA in the samples of animal and plant tissues, blood, body fluids, and criminal specimens. The extracted nucleic acid can be directly used in a variety of downstream applications, such as RT-PCR, SNP and STR gene analysis, electrophoresis and etc. The instrument is widely used in scientific research, in vitro diagnosis, food safety, forensic and etc.

### Extraction principle



### Features



#### Easy to use

10-inch touch-type color operation screen, simple and intuitive.

#### Smart programming

Programmable, flexible configuration, to achieve different experimental needs

#### Safe and reliable

Disposable consumables, ultraviolet sterilization lamp, high-efficiency filtration system, eliminate cross-contamination and ensure biological safety

#### Efficient and stable

Low loss the magnetic beads with high recovery rate. High-precision automatic operation, good repeatability, stable results

### Widely used to extract different kinds of samples

Suitable for high-quality nucleic acid extraction of various biological samples, such as the extraction of nucleic acid from blood, body fluids, animal and plant tissues, exfoliated cells, swabs, feces, slices and other samples.

# GenePure BSH-32

## Automatic Nucleic Acid Extraction System

### Parameter

Name	Automatic Nucleic Acid Extraction System
Model No.	08391793
Processing Vol.	20µL-1000µL
Sample Vol.	600µL
Max. Sample Throughput	2*96 deep well plate (32 samples)
Magnetic bead recovery efficiency	95%
Heating temp.	Environment temperature+5-100°C (single-well system temperature accuracy :±1 °C, temperature difference between holes: ±1 °C)
Shake&Mix	Speed adjustable: Fast, medium and slow, stepless speed control.
Applicable reagent types	Magnetic bead extraction
Operating Screen	Built-in touch screen
Operating environment temp.	5-40°C
Transportation&storage temp.	-20°C-55°C
Operating humidity	≤70%
Transportation&storage humidity	≤95%
Differences between extraction wells	Cv≤3%, verified after mixing the magnetic beads
Sterilization method	UV sterilization
Single running time	30-60 minutes/time
Instrument interface	USB interface
Size	430mmx420mm x385mm(LWH)
Input voltage	100-240V, 50/60HZ
Gross Weight	26kg

### References

00007494	Comb for Genepure pack 25
00000954	Deepwell plate for Genepure pack 60



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[hermesbiotech.com](https://hermesbiotech.com)

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