

# AIGDS-3024

Automatic Integrated Gene Detection System



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

AIGS is the fully integrated system for fast molecular diagnostics, which combines the nucleic acids extraction and realtime PCR ampufication. by using the microtuidic 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 PCR lab, by using the preassembled kits. AIGS can run as a POCT system without the complicated operation.



AIGS (host)



(AIGS slaver)

►► **Application:**

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



## ►► Features

- A fully integrated gene extraction and analysis system**  
The close system ensures easy operation without a PCR lab.  
The preassembled kits using the microfluidic technology guarantee the instant detection by adding the sample to the kit without need of preparing the reagents.
- Multiplex PCR detection individually controlled**  
AIGS includes 4 individual detection units.  
Each unit can run one target kit at any time.  
One unit can run a multiplex PCR test up to 5 colors.  
AIGS has two models, one includes the controller, which can control the extra 5 sets of AIGS without controller
- Upgradable to run 24 samples simultaneously**  
Up to 5 slave AIGS units can be connected to the AIGS host so to achieve the tests of 24 samples simultaneously.
- High sensitivity and accurate result**  
Using the high sensitive Hamamazu PMT detector  
Microfluidic designed cartridge
- Internet+ data transfer**  
Connectors: Wifi, GPRS, Clouds  
The detection data could be sent directly to clouds.  
It can be connected to LIS or HIS easily



Add sample



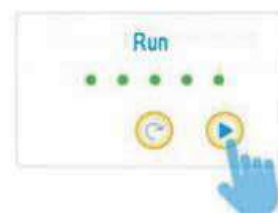
Add magnetic beads



Load cartridge to AIGS



Run



Report

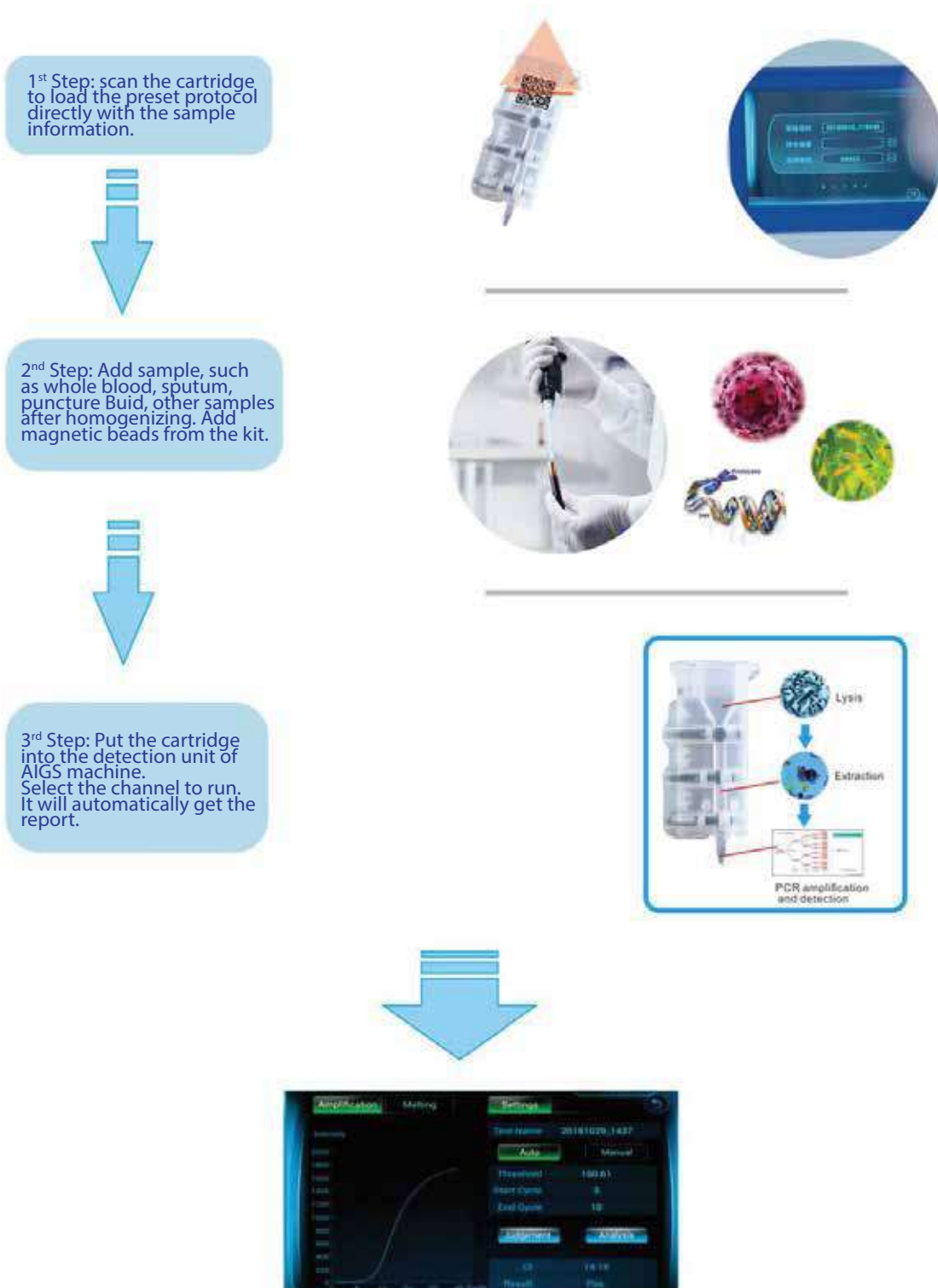


## ►► Specifications

Model	LifeReady 1000
Sample capacity	4 sample(up to 24 samples by connecting to the slaver units)
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	4 0.1 °C/S
Dyes	F1· FAM.SYBER Green I; F2: HEX VIC; F3: TAMRACY3; F4: TEX RED.ROX; F5: Cy5;
Fluorescence detection repeatability	CV ≤3%
Fluorescence detection accuracy	≤5%
Fluorescence Detection time	≤5S
Input power	AC 100 ·240V.50 · 60Hz,350W
Data connector	USB W1F1,GPRS
Size	380mm x 305mm x 343mm

►► **Workflow**

- Only one hour from sampling to report!



## ▶▶ Aigs Kits

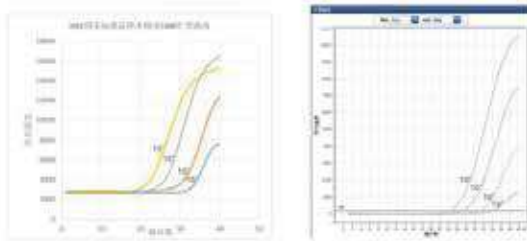
- Group B Streptococcus(GBS)
- N. Gonorrhoeae(NG)
- Chlamydia Trachomatis(CT)
- Ureaplasma Urealyticum(UU)
- Herpes Simplex Virus(HSV)

Easy operation, Microfluidic design.

Close system, No contamination

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

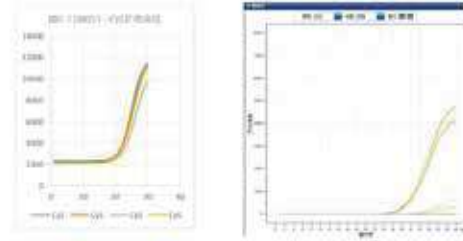
Standards gradient test



AIGS

Manual extraction+  
qPCR detection

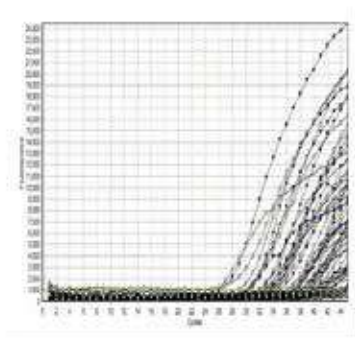
Standard 100IU sensitivity test



AIGS

Manual extraction+  
qPCR detection

GBS sensitivity test, <100cfu/ml,  
by cultivation gold standard bacteria counts  
(Chinese clinical standards 1000cfu/ml)



GBS amplification efficiency 95.22%



## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Carbon 3800



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Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



 **Analytical**®  
Technologies Limited

HPLC Solutions   MultipleLabs   Analytical Bio-Med   Analytical Distributors   Analytical Foundation (Trust)

**Corporate & Regd. Office:**  
Analytical House, # E67 & E68,  
Ravi Park, Vasna Road, Baroda,  
Gujarat 390 015. INDIA

T: +91 265 2253620  
+91 265 2252839  
+91 265 2252370  
F: +91 265 2254395

E: [info@hplctechnologies.com](mailto:info@hplctechnologies.com)  
[info@multiplelabs.com](mailto:info@multiplelabs.com)  
[info@analyticalgroup.net](mailto:info@analyticalgroup.net)  
[info@analyticalbiomed.com](mailto:info@analyticalbiomed.com)

W. [www.analycalgroup.net](http://www.analycalgroup.net)  
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