

Hangzhou Lan Ao Technology Co., Ltd

Product Catalogue

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PCR analysis system



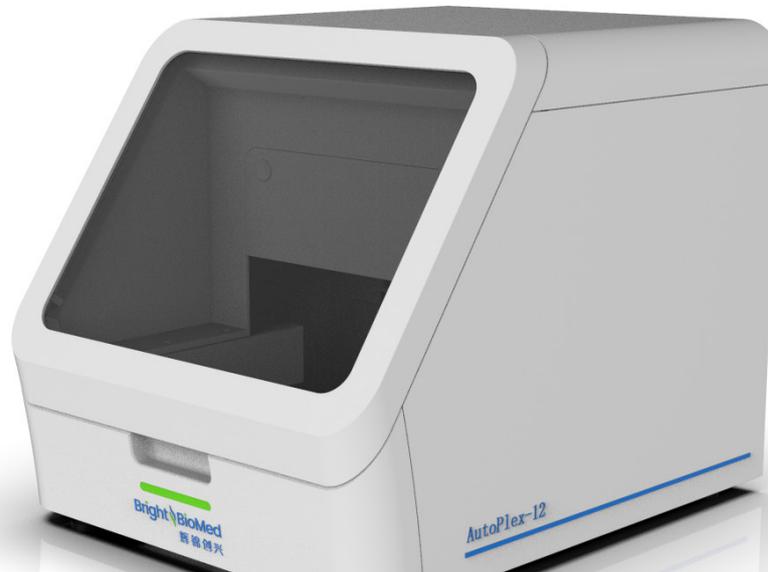
Hangzhou Lan Ao Technology Co., Ltd

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Fully automatic fluorescence PCR analysis system

AutoPlex-12



Function

- Integrating sample nucleic acid extraction, amplification detection and analysis functions, with sample input and result output.
- Using pre packaged reagents and one click software operation to fully automate nucleic acid testing experiments.

Process

- Sample types: whole blood, serum, plasma, nasal/oropharyngeal swabs, feces, bronchoalveolar lavage fluid, cerebrospinal fluid, etc.
- One machine can detect 1-12 samples, and a single sample can detect up to 16 targets simultaneously. The total duration of the entire process is less than 1.5 hours.
- It integrates functions such as sample nucleic acid extraction, amplification detection, and analysis.
- The detection module is independent and can simultaneously detect different items on the computer, with automatic interpretation of the results.

Application scenarios



Hospital



Third party
medical laboratory



Customs



Centers for disease
control and prevention



Research
institutions



Entry-Exit Inspection
and Quarantine

Fully automatic fluorescence PCR analysis system

AutoPlex-12

Advantages

- Core patent: Anti pollution, no cover sealing wax patented technology, high temperature melting, low temperature solidification.
- Open platform: Using universal consumables (0.2mL PCR eight tube), compatible with most manufacturers' fluorescent PCR/PCR fluorescent probe nucleic acid detection reagents on the market.
- Multiple protection: HEPA filtration, external exhaust system, and UV sterilization with multiple protections.
- Visual Management: Can import/export database files, with functions such as sample tracking and data analysis.
- Nucleic acid extraction or purification reagents are extracted using magnetic bead method, which has high sensitivity and stable results; using single individual pre packaged reagents, the operation is simple.

Technical Specifications

Temperature Control System	Sample Size	Standard 200 μ L PCR Tube
	Reaction Volume	10-50 μ L
	Maximum Rate	7.0 $^{\circ}$ C/s
	Maximum Cooling Rate	5.7 $^{\circ}$ C/s
	Temperature Range	Normal temperature-99 $^{\circ}$ C
	Temperature accuracy Uniformity	\pm 0.15 $^{\circ}$ C / \pm 0.18 $^{\circ}$ C
Detection System	Excitation Light Source	4 monochrome high-efficiency LEDs
	Detection Device	SiPMT (silicon photomultiplier tube)
	Detection Mode	Real time fluorescence quantification
	Excitation/ Detection Range	455-650nm/510-750nm
	Number of Fluorescent Channels	4-channel
	Supported Dyes	FAM/SYBR Green, VIC/HEX/JOE, ROX/Texas Red, Cy5, etc.
System Parameters	Power Supply/Frequency	AC 220V / 50Hz
	Input power/ sound pressure	800VA/ \leq 70dB(A)
	Interface	USB
	Size/Weight	546mmx686mmx550mm/73kg

Order Information

Product Item Number	Product Name	Product Model/Specification
HJ-D01-1	Fully automatic fluorescence PCR analysis system	AutoPlex-12
HJ-A02-12	Nucleic Acid Extraction or Purification Reagents	12 Tests/Box

Fully automatic fluorescence PCR analysis system

AutoPlex-Mini



Function

- Integrating sample nucleic acid extraction, amplification detection and analysis functions, with sample input and result output.
- Using pre packaged reagents and one click software operation to fully automate nucleic acid testing experiments.

Process

- Sample types: whole blood, serum, plasma, nasal/oropharyngeal swabs, feces, bronchoalveolar lavage fluid, cerebrospinal fluid, etc.
- One machine can detect 1 sample, and a single sample can detect up to 16 targets simultaneously. The total duration of the entire process is less than 80 minutes.
- It integrates functions such as sample nucleic acid extraction, amplification detection, and analysis.
- Easy to operate, using single-use pre-packaged reagents, flexible and convenient.

Advantages

- Flexible, portable, compact, and lightweight, with a no-installation design, it can be used immediately upon plugging in, and requires minimal experimental space.
- Open platform: Using universal consumables (0.2mL PCR eight tube), compatible with most manufacturers' fluorescent PCR/PCR fluorescent probe nucleic acid detection reagents on the market.
- Multiple protection: HEPA filtration, external exhaust system, and UV sterilization with multiple protections.
- Visual Management: Can import/export database files, with functions such as sample tracking and data analysis.
- Nucleic acid extraction or purification reagents are extracted using magnetic bead method, which has high sensitivity and stable results; using single individual pre packaged reagents, the operation is simple.

Application scenarios



Small sample size
rapid detection



Epidemic quarantine
and monitoring



Scientific research

Fully automatic fluorescence PCR analysis system

AutoPlex-Mini

Technical Specifications

Temperature Control System	Sample Size	Standard 200 μ L PCR Tube
	Reaction Volume	10-50 μ L
	Thermal Cycling Technology	Peltier
	Maximum Cooling Rate	4.0 $^{\circ}$ C/s
	Temperature Range	Normal temperature-99 $^{\circ}$ C
	Temperature accuracy Uniformity	\pm 0.5 $^{\circ}$ C / \pm 1.0 $^{\circ}$ C
Detection System	Excitation Light Source	4 monochrome high-efficiency LEDs
	Detection Device	SiPMT (silicon photomultiplier tube)
	Detection Mode	Real time fluorescence quantification
	Excitation/ Detection Range	455-650nm/500-720nm
	Number of Fluorescent Channels	4-channel
	Supported Dyes	FAM/SYBR Green, VIC/HEX/JOE, ROX/Texas Red, Cy5, etc.
System Parameters	Power Supply/Frequency	AC 220V / 50Hz
	Input power/ sound pressure	100VA/ \leq 70dB(A)
	Interface	USB
	Size/Weight	155mmx383mmx365mm/6.5kg

Order Information

Product Item Number	Product Name	Product Model/Specification
HJ-D02-1	Fully automatic fluorescence PCR analysis system	AutoPlex-Mini
HJ-A02-12	Nucleic Acid Extraction or Purification Reagents	12 Tests/Box

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