

TIANLONG

INSTRUMENT SERIES



Sample Processing System

▶▶ GeneMix Pro

GeneMix Pro

Automatic Sample Processing System



Maintain sample integrity with a hands-free method of capping and decapping tubes quickly and easily with the Tianlong GeneMix Pro Automatic Sample Processing System. Designed for automating laboratory workflow, GeneMix Pro can process 96 samples within 20min and free professionals from tedious mechanical operations.

The workflow includes automated uncap/recap for sample tubes, sample pipetting and dispensing, Proteinase K/Internal reference reagent loading, automatic mixing of sample tubes. GeneMix Pro can automate laboratory workflow and improve efficiency and safety for medical professionals.

FEATURES



Automate laboratory workflow

With an automated sample preparation process, 96 samples can process within 20 minutes from sample tube scanning to deep well plate scanning



Highly compatible

Compatible with the various specification of sampling tubes and deep-well plates, ready for use with customized specification



Easy of use

"Sample - rack - plate" information scanning automatically, sample to result in closed-loop management can save time and minimize human error



Superior sample protection

With built-in UV light disinfection in the experimental chamber, drop catcher technology and an enclosed design with an internal negative pressure system to ensure sample integrity

SPECIFICATIONS

Product Name	Automatic Sample Processing System-GeneMix Pro
Throughput	96
Handling Time	≤20 minutes for 96 samples
Compatible Sampling Tubes	<ul style="list-style-type: none"> -Diameter: 13-19mm; Height: 55-115mm -Compatible with 5mL, 10mL and 20mL screwcap sampling tubes; -5-in-l, 10-in-l mixed sampling tubes direct load with cap; -Direct loading with cap for sampling tubes with swab; -Preset with conventional standard sampling tubes, ready for use with customized sampling tubes specifications
Compatible Deep-Well Plates	<ul style="list-style-type: none"> -6*16T standard 1mL deep-well plates -1*96T standard 1mL deep-well plates -Compatible with 3mL deep-well plates (including 3 * 8T 3mL large-system deep-well plates of Tianlong) -Preset with conventional standard deep-well plates, ready for use with customized deep-well plates specifications
Pipetting	<ul style="list-style-type: none"> -Dual independent pipetting modules -Pipetting volume: 5 -1000 μL -Liquid level sensor -Pipetting volume detection
Pipetting Accuracy	5 μL~50 μL: Er: ≤3.5% 50 μL~200 μL: Er: ≤2.5% ≥ 200 μL: Er: ≤2.0%
Pipetting Repeatability/CV	5 μL~50 μL: CV: ≤ 2.5% 50 μL~200 μL: CV: ≤ 1.5% ≥ 200 μL: CV: ≤ 1.0%
Smart Information System	<ul style="list-style-type: none"> -Sampling tube information scanning (ID code & QR code) -Deep-well plate status identification (open system) /information scanning (Tianlong system) -Automatic barcode scanning of sample racks -"Sample - rack - plate" PCR information scanning, "sample to result" in closed-loop management
Touch Screen	12.1 inch LCD touch screen
Internet Port	USB 3.0/Ethernet port
Dimensions	1130mm(L) x780mm(W) x 920mm(H)
Net Weigh	200Kg
Power Supply	Voltage: 100 - 240 V; Frequency: 50/60HZ; Rated power: 600VA
Temperature	15°C-35°C
Relative Humidity	35%RH-70%RH, non-condensing
Atmospheric Pressure Range	56-106Kpa (Altitude ≤ 4000m)

Nucleic Acid Extractor

- ▶▶ GeneFlex
- ▶▶ Libex
- ▶▶ GeneRotex 48
- ▶▶ GeneRotex 96
- ▶▶ PANA9600S
- ▶▶ PANA9600X
- ▶▶ Npex192

GeneFlex

Automatic Nucleic Acid Extractor

For flexible throughput needs, GeneFlex is your ideal answer

GeneFlex Automatic Nucleic Acid Extractor is a compact and flexible automatic nucleic acid extractor designed with rotary mixing technology(RMT). GeneFlex can flexibly compose 16 x n different throughputs to meet the needs of simultaneous extraction for different projects without interfering with each other. Apart from its excellent performance, GeneFlex has also won the German Red Dot Design Award 2021 for its user-friendly design. With flexible throughput and independent extraction module, GeneFlex can be your ideal choice for faster and immediate testing tasks.



reddot award
winner

Flexible throughput

Small footprint

Immediate results



Highly flexible for your needs

GeneFlex can flexibly compose 16 x n different throughputs to meet the needs of simultaneous extraction without interfering with each other. With independent extraction module, GeneFlex can realize your different but immediate testing needs from various applications.



Automated workflow and remote upgrade

Automatic identification of reagent protocols and position of mixing sleeves; Remote upgrade and maintenance of instruments and reagent programs.



Minimized contamination measures

1) UV lamp; 2) Internal negative pressure; 3) HEPA filtration; 4) Rotary mixing to reduce aerosols; 5) Able to work inside a biosafety cabinet for highly-contaminated samples.



User-friendly and convenient

1) 6.86-inch touch screen operation or smartphone/tablet APP control with Wifi connection; 2) Automatic shutdown after UV disinfection; 3) Noise-free design.



Easy to start experiment anywhere

With mobile power, GeneFlex can start the experiment anywhere to meet different scenario testing needs.

FEATURES

SPECIFICATIONS

Model	GeneFlex 16	GeneFlex 32	GeneFlex 48	GeneFlex 96	GeneFlex 192
Throughput	16	32	48	96	192
Processing Volume	20 μ L-1700 μ L				
Sample Processing Volume	200-500 μ L				
Compatible Consumables	 Customized 96-deep-well plates		 Customized single 6-strip tubes		
Inter-well Difference	CV \leq 3%				
Mixing Method	Rotary mixing				
Rotary Speed	100~3000rpm				
Temperature Control Range	Temperature control separately for lysis and elution. Temperature range from 30°C to 120°C.				
Temperature Control Accuracy	Heating speed: 4.0 \pm 0.2°C/s. Temperature accuracy: \pm 1.0°C. Temperature uniformity: \leq 1.0°C.				
Languages	Chinese/English				
Protocol Management	Flexible to create, edit and delete protocols				
Operation Mode	Mode 1: Android systems in smartphones/tablets Mode 2: 6.86 inch full-color LCD screen				
Automatic Control	Automatic opening and closing of the experiment cabin				
Reagent Identification	Automatic identification of reagent information and running the assays				
Mixing Sleeve Monitoring	Real-time monitoring of the mixing sleeves status in experiment				
Magnetic Bead Residue	\leq 1%				
Power Failure Protection	Choose freely whether or not to continue the experiment when the power is on again after cutting off				
Disinfection	Ozone + UV disinfection				
Auto Power-off	Auto power-off after UV disinfection				
Negative-Pressure Filtration	Negative pressure HEPA filtration module				
Connection Port Type	USB port				
Weight	7.4Kg (net)				
Instrument Dimensions	210mm(L)*229mm(W)*242mm(H)				
Power Supply and Power Consumption	AC100-240V, 50Hz				

EXTRACTION MENU

Product Name	Sample Type	Ordering Code
Virus Nucleic Acid Extraction Kit	Whole blood, serum, plasma, tissue fluid, urine, and swab media, etc.	T338H/T528H
Virus Nucleic Acid Extraction Kit (rapid within 15min)	Swab media or other samples	T339H
Whole Blood DNA/RNA Extraction Kit (For SMA Detection)	Whole blood samples	T509H
Animal DNA/RNA Extraction Kit	Nasopharyngeal swabs, environmental samples, serum, blood swabs, and tissue samples	T079H/T080H
Viral DNA/RNA Extraction Kit	Environmental samples	T806H/T807H/T808H
Nucleic Acid Extraction Kit (For Plant Tissues Genomic DNA Extraction)	Plant tissue samples	T822H/T823H/T824H
Nucleic Acid Extraction Kit (For HCMV/EB DNA Extraction)	Serum, plasma, urine, whole blood, swab samples	T524H/T525H/T526H/T527H
Nucleic Acid Extraction Kit (For Bacteria Genomic DNA Extraction)	Bacterial suspension cultures, cotton swabs, sputum, body fluids and stool samples	T529H/T530H
Nucleic Acid Extraction Kit (For Pet Diagnosis)	-	T820H

***More extraction reagents are under development and will come soon.**

Libex

Nucleic Acid Extractor

Ensure great process safety, high performance, and user convenience for you



Tianlong Nucleic Acid Extractor Libex utilizes the proven magnetic bead method to extract highly purified nucleic acid from a wide range of sample types relevant for molecular diagnostics, genetic identity testing, forensic testing, biomedical research, and gene expression analysis. The combination of easy-to-use instruments with pre-loaded protocols selection, and magnetic bead-based sample preparation kits filled with unique reagents ensure rapid nucleic acid extraction and highly purified products.

FEATURES



Reliable results you can depend on

With magnetic bead-based extraction kits with pre-filled design, experimenters need only one step to start the extraction, which greatly minimizes manual error and ensures high purity of nucleic acid



More efficient extraction process

When Libex collocates with pre-filled extraction reagents, 32 samples of nucleic acid for COVID DNA can be extracted within 15 minutes (extraction time varies from reagent to reagent)



More convenient with two configurations

Standalone configuration: Machine keypad operation;
APP control configuration: Cloud-enabled control via Android smartphones/tablets



Efficient contamination control measures

With unique sample cross-contamination control system and UV disinfection function, cross-contamination can be minimized



Simple and remarkable software

With the convenient software based on Android, a protocol can be set up and started with just a few clicks on your phones/tablets. Friendly and intuitive interface make it simple even for first time user

PRINCIPLE



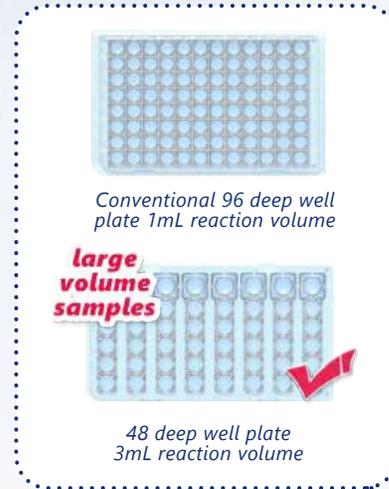
SPECIFICATIONS

Model	Libex
Throughput	1-32
Processing Volume	30-1000uL
Recommended Sample Volume	200uL
Magnetic Bead Residue	≤1%
Suitable Consumables	96-well plates, 6 strip tube
Heating Temperatur	Lysis:room temperature to 120°C Elution:room temperature to 120°C
Processing Mode	Multi-mode, multi-speed available
Reagents	Reagents suitable for Magnetic Bead Method
Operation Mode	Mode1:Cloud-enabled control via smart phones/tablets(Android); Mode 2: Machine keypad operation
Experimental Storage	Up to 15 groups of proarams saved in device; Up to >500 groups of programs saved in the Android app
Protocol Management	Create, edit, delete, protocol mode
Contamination Control	Built-in UV disinfection module
Power Failure Protection	Choose freely whether or not to continue the experiment when the power is on again after cutting off
Connection Port Type	USB
Network Connection	Wifi
Instrument Dimensions	435mm*440mm*445mm(W*L*H)
Weight	31.5kg (net)
Power Supply	AC100-240V,50/60±1Hz; 600w
Operating Temperature Range	10~30°C
Operating Humidity Range	20%-85%

GeneRotex 48

Nucleic Acid Extractor

Designed for processing large volume samples with innovative rotary mixing technology



Tianlong GeneRotex 48 nucleic acid extractor is designed with our innovative rotary mixing technology (RMT), which can reduce aerosol generated during the purification process, minimize the risk of false positives caused by cross-contamination, and ensure the accuracy of experiment results. Compatible with Tianlong large volume nucleic acid extraction kits, GeneRotex 48 can greatly improve detection sensitivity and extraction efficiency.

FEATURES



Designed for processing large volume samples

GeneRotex 48 is compatible with Tianlong large volume nucleic acid extraction kits. 1ml sample volume with independent designed consumable makes pathogen detection sensitivity easier than before. Your extraction efficiency can be improved greatly.



Innovative rotary mixing technology

Based on Tianlong's Innovative rotary mixing technology(RMT), GeneRotex 48 can reduce aerosol generated during the experiment and minimize the risk of false positives caused by cross-contamination while being super quiet during operation



Negative pressure system with HEPA filtration

The negative pressure ventilation design with replaceable HEPA filtration can ensure the exhausted air with no biological hazards



High purification and reliable results

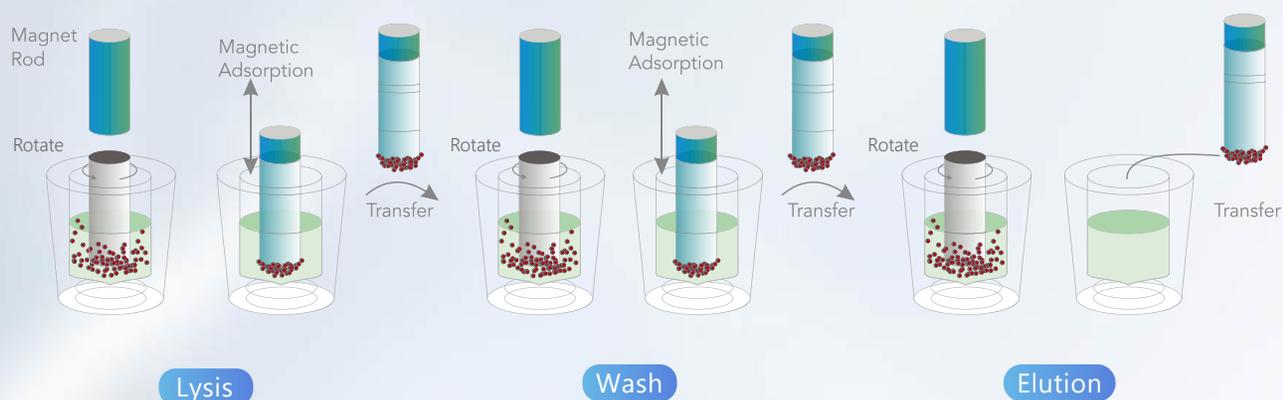
Less than 1% residual amount of magnetic beads increase confidence in your experiment result



7 inch color touch screen

Built-in 7-inch full-color LCD screen, easy to operate the experiment

PRINCIPLE



SPECIFICATIONS

Model	GeneRotex48
Throughput	1-48
Reaction Volume	50-3000uL
Sample Volume	1000μL
Compatible Consumables	Customized 48-deep-well plates
Rotational Speed	≤3000rpm
Heating Temperature	Lysis heating:room temperature to 120°C Elution heating:room temperature to 120°C
Mixing Method	Rotary mixing
Operation Mode	7-inch full-color LCD touch screen operation
Program Storage	Up to 1000 programs can be stored
Protocol Management	Flexible to create, edit and delete protocols
Automatic Control	Motor-driven automatic opening and closing of the experiment cabinet
Magnetic Bead Residue	≤1%
Power Failure Protection	Choose freely whether or not to continue the experiment when the power is on again after cutting off
Contamination Control	Negative pressure HEPA exhaust filter module; Built-in UV disinfection module
Connection Port Type	USB port
Weight	45kg(net)
Instrument Dimensions	510mm*490mm*480mm(W*L*H)
Power Supply and Power Consumption	AC100V-240V, 50/60HZ600VA

GeneRotex 96

Nucleic Acid Extractor

Innovative rotary mixing technology offers high efficiency of nucleic acid extraction and purification



Tianlong GeneRotex 96 nucleic acid extractor is designed with our innovative rotary mixing technology (RMT), which can reduce aerosol generated during the purification process, minimize the risk of false positives caused by cross-contamination, and ensure the accuracy of experiment results. The innovative 6*16 extraction module, compatible with 96-deep-well plates and 6-tube strips, can offer high-throughput extraction and reduce reagent waste without the conventional inconveniences caused by fixed throughput. Flexible and efficient, you can extract from 1 to 96 samples per run with GeneRotex 96.

FEATURES



7 inch color touch screen

Built-in 7-inch full-color LCD screen, easy to operate the experiment



High throughput and efficient extraction

6*16 extraction module with special 96 deep well plate and 6 strip tube designed for GeneRotex 96 to ensure high throughput and reduce reagent waste. You can extract from 1 to 96 samples per run



Innovative rotary mixing technology

Based on Tianlong's innovative rotary mixing technology(RMT), GeneRotex 96 can reduce aerosol generated during the experiment and minimize the risk of false positives caused by cross-contamination while being super quiet during operation

HEPA

Negative pressure system with HEPA filtration

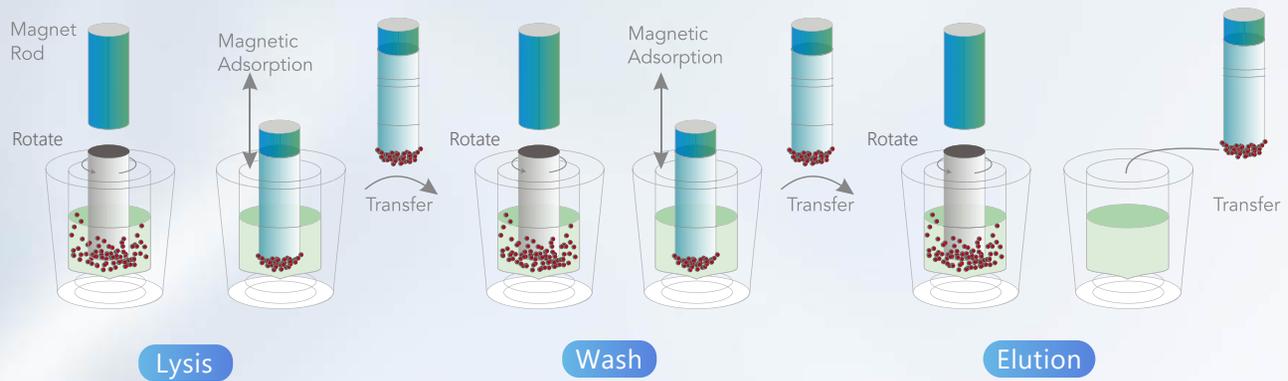
The negative pressure ventilation design with replaceable HEPA filtration can ensure the exhausted air with no biological hazards



High purification and reliable results

Less than 1% residual amount of magnetic beads increase confidence in your experiment result

PRINCIPLE



SPECIFICATIONS

Model	GeneRotex 96	
Throughput	1-96	
Reaction Volume	30-1000uL	
Sample Volume	200μL	
Compatible Consumables		
	96-deep-well plates	customized 6 strip tube
Inter-well Extraction Difference	CV≤3%	
Rotational Speed	≤3000rpm	
Heating Temperature	Lysis heating: room temperature to 120°C Elution heating: room temperature to 120°C	
Mixing Method	Rotary mixing	
Operation Mode	7-inch full-color LCD touch screen operation	
Program Storage	Up to 1000 programs can be stored	
Protocol Management	Flexible to create, edit and delete protocols	
Automatic Control	Motor-driven automatic opening and closing of the experiment cabinet	
Magnetic Bead Residue	≤1%	
Power Failure Protection	Choose freely whether or not to continue the experiment when the power is on again after cutting off	
Contamination Control	Negative pressure HEPA exhaust filter module; Built-in UV disinfection module	
Connection Port Type	USB port	
Weight	45kg(net)	
Instrument Dimensions	510mm*490mm*480mm(W*L*H)	
Power Supply and Power Consumption	AC100V-240V,50/60HZ;600VA	

PANA9600S

Automatic Nucleic Acid Workstation

Faster and cleaner, leading the new era of rotary nucleic acid extraction



1 Sample Information Scanning

2 Sample Loading

3 Nucleic Acid Extraction

4 PCR System Set Up

PANA 9600S automatic nucleic acid workstation is designed according to the principles of magnetic beads method and rotary nucleic acid extraction technology. This workstation integrates the workflow of sample information scanning, sample loading, nucleic acid extraction, and PCR system setup, which makes your experiment easy to start and greatly saves time for professionals. With compatible nucleic acid extraction kits, the nucleic acids needed can be extracted quickly and efficiently from various sample types including whole blood, serum and plasma, swab and urine for specific downstream applications.



One-key operation for modularized experiment flow

With one-key operation, automated sample information scanning, sample loading, nucleic acid extraction, and PCR system setup for 96 samples of novel coronavirus can be finished within 50min



Minimized contamination measures

With rotary nucleic acid extraction, smart drop capture, strict zoning, air filtration, and UV disinfection technology, cross-contamination can be reduced to ensure accurate results



High precision and reliable results

With precise sample loading, accurate temperature ramp control, and precise liquid transfer design, consistent and precise results can be ensured for each of your assays



Highly flexible for your needs

Compatible with various sample types and extraction kits; 4 PCR systems can be set up at the same time

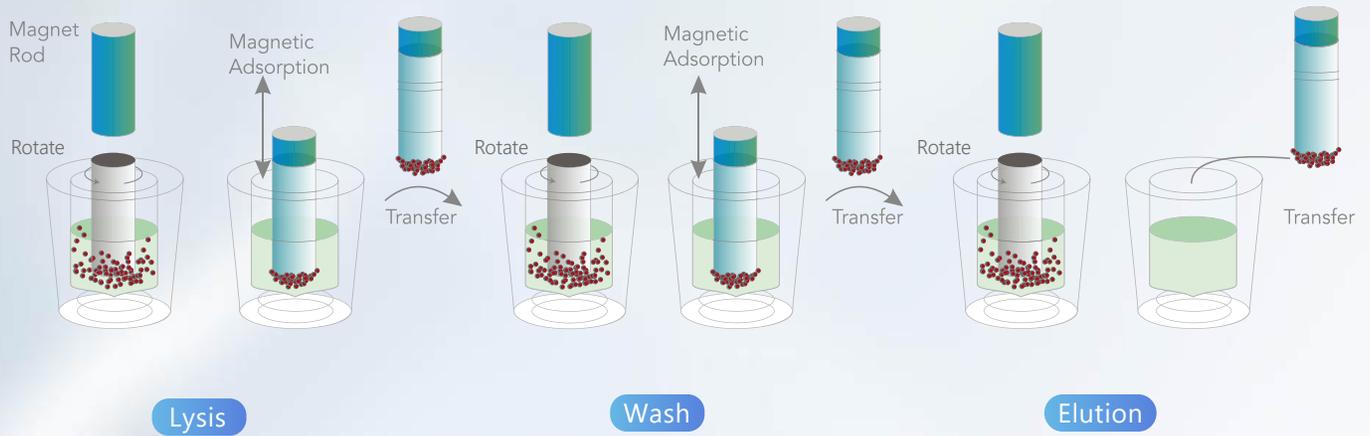


Automated workflow and hands-free operation

Automated barcode scanning for reagent identification, sample loading, nucleic acid extraction, PCR system setup; visualized consumable recognition; easy connection with LIS (laboratory information system)

FEATURES

PRINCIPLE



SPECIFICATIONS

Model	PANA9600S
Sample Capacity	1-96
Technical Principles	Magnetic beads method; Rotary nucleic acid extraction technology
Processing Capacity	Information scanning and nucleic acid extraction of 96 samples per run; 4 different PCR system can be set up
Sample Types	Plasma, serum, whole blood, swab, and urine, etc.
Sample Loading Channels	4
Pipetting Performance	Below 15 μ L: accuracy: $A \leq 2.0\%$, repeatability: $CV \leq 3.0\%$; 15 μ L to 50 μ L: accuracy: $A \leq 1.5\%$, repeatability: $CV \leq 1.5\%$; Above 50 μ L: accuracy: $A \leq 1.0\%$, repeatability: $CV \leq 1.2\%$.
Liquid Level Detection	CapSense/Gas pressure sensor
Sample Tubes	Compatible with all types of blood collection tube, 1.5mL and 2.0mL centrifugal tubes, freezing tubes, and sample loading cups, etc.
Temperature Control	Lysis and elution, temperature flexible to control between 35°C and 120°C
Information Tool	Barcode scanning for reagent identification; visualized consumable recognition
PCR Reagent Chamber	Avoid light design; power-on automatic refrigeration (4°C~15°C)
PCR Consumables	Compatible with 0.1mL, 0.2mL 8 strip tube and 96-well plates
Minimized Contamination	Independent closed extraction area, top directional exhaust creates an internal negative pressure system Sampling device with air tightness and anti-dropping design External droplet catching plate Sterilization device in experiment cabin and extraction cabin Customized function: directional ventilation system for the nucleic acid extraction area
Information Technology	Scanning the bar codes of multiple samples one by one while sample holder is loaded Information connection of Sample tube-Deep well plate-PCR tube Easy connection with LIS (laboratory information system)
Device General Information	1370mm(L)*810mm(W)*890mm(H); 220kg(net); 12.1-inch touch screen

PANA9600X

Automatic Nucleic Acid Workstation

All innovation for boosting your lab efficiency with simplified workflow

PANA 9600X automatic nucleic acid workstation is designed based on magnetic beads method and rotary nucleic acid extraction technology. It integrates the workflow of automatic capping/decapping for sample tubes, sample information scanning, sample loading, nucleic acid extraction, and PCR system setup, which makes your experiment easy to start and greatly saves time for professionals. With compatible nucleic acid extraction kits, the nucleic acids needed can be extracted quickly and efficiently from various sample types including whole blood, serum, plasma and swab scrub solution for specific downstream applications.

Automated Capping/
Decapping for Sample
Tubes

1

Sample Information
Scanning

2

Sample Loading

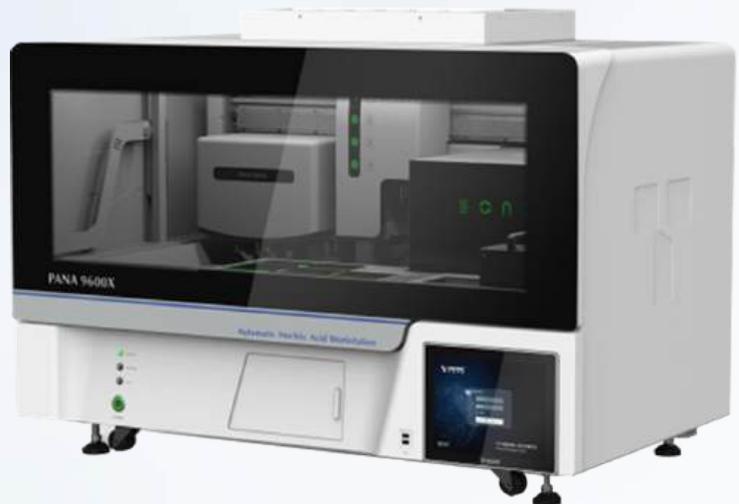
3

Nucleic Acid Extraction

4

PCR System Set Up

5



Highly automated workflow and rapid extraction

With one-key operation, automatic capping/decapping for sample tubes, sample information scanning, sample loading, nucleic acid extraction, and PCR system setup for 96 samples can be finished within 40-80 min (relying on the reagent)



More reliable results you can depend on

With precise sample loading, accurate temperature ramp control, and precise liquid transfer design, consistent and precise results can be ensured for each of your assays



Smart information technology

Sample information scan; reagent information identification; visualized consumable recognition; easy connection with LIS (laboratory information system)



Highly flexible for your needs

Compatible with various sample types and extraction kits; 4 PCR systems can be set up at the same time

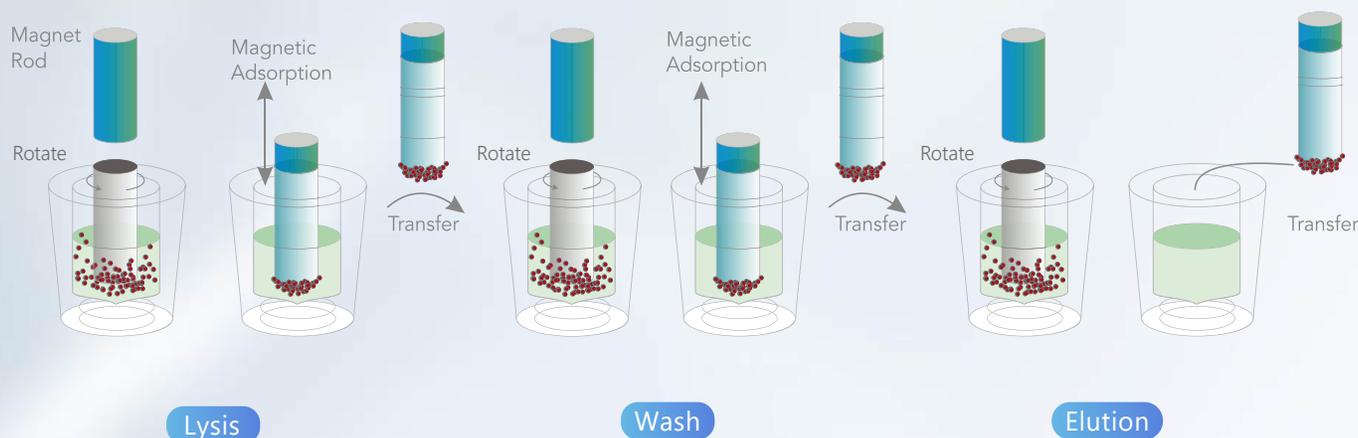


Minimized contamination measures

With rotary mixing for nucleic acid extraction, HEPA filter, smart drop capture, strict zoning, and UV disinfection technology, cross-contamination can be reduced to ensure accurate results

FEATURES

PRINCIPLE



SPECIFICATIONS

Model	PANA9600X
Sample Capacity	1-96
Technical Principles	Magnetic beads method; Rotary nucleic acid extraction technology
Processing Capacity	Nucleic acid extraction of 96 samples per run; 4 different PCR system can be set up
Sample Types	Plasma, serum, whole blood, swab scrub solution, etc.
Sample Loading Channels	4
Pipetting Range	1 μ L-1000 μ L
Pipetting Performance	Below 15 μ L: accuracy: A \leq 2.0%, repeatability: CV \leq 3.0%; 15 μ L to 50 μ L: accuracy: A \leq 1.5%, repeatability: CV \leq 1.5%; Above 50 μ L: accuracy: A \leq 1.0%, repeatability: CV \leq 1.2%.
Liquid Level Detection	CapSense/Gas pressure sensor
Sample Tubes	Compatible with standard blood collection tube, various thread sampling tube, etc.
Temperature Control	Lysis and elution, temperature flexible to control between 35 $^{\circ}$ C and 120 $^{\circ}$ C
Extraction Consumables	96 deep-well plates, 6 strip tubes
Information Tool	Barcode scanning for reagent identification; visualized consumable recognition
PCR reagent chamber	Avoid light design; power-on automatic refrigeration (4 $^{\circ}$ C ~8 $^{\circ}$ C)
PCR Consumables	Compatible with 0.1mL, 0.2mL 8 strip tube, and 96-well plates
Temperature Accuracy	\leq 2.0 $^{\circ}$ C
Temperature Uniformity	\pm 1.2 $^{\circ}$ C
Minimized Contamination	Anti-droplet: air tightness and anti-droplet design and an external droplet design; Strict zoning; Directional exhaust; HEPA filter; UV disinfection
Information Technology	Scanning the bar codes of multiple samples one by one while sample holder is loaded Information connection of Sample tube-Deep well plate-PCR tube Easy connection with LIS (laboratory information system)
Device General Information	1370mm(L)*810mm(W)*960mm(H); 235kg(net); 12.1 inch touch screen
Interfaces	Ethernet, USB
Power Supply	AC 100-240V, 50-60Hz

Npex 192

Automatic Nucleic Acid Extractor

Ultra-high throughput, optimizing your extraction efficiency with confidence



Tianlong Nucleic Acid Extractor Npex 192 utilizes the proven magnetic bead method to extract highly purified nucleic acid from various samples. With ultra-high throughput and high efficiency, Npex 192 can complete nucleic acid extraction of 192 samples in 12 min. The combination of easy-to-use instruments with pre-loaded protocols selection, and magnetic bead-based sample preparation kits filled with unique reagents ensure rapid nucleic acid extraction and highly purified products.

FEATURES



Ultra-high throughput and rapid extraction

Npex 192 can complete nucleic acid extraction of 192 samples in 12 min. Realizing high-throughput processing of parallel samples and providing high-quality nucleic acids for your downstream applications.



Compact in design and space-saving

With 8-unit deep-well plate layout and Z-axis mechanical motion, Npex 192 can realize rapid extraction with the shortest movement. It can meet your high-throughput needs but also save your lab space.



Easy to operate and visual monitoring

Built-in 7-inch full-color LCD screen, easy to operate the experiment; Built-in scanner can automatically scan and identify the extraction program and start running; Visual monitoring of nucleic acid extraction progress.



Efficient temperature control

Separate temperature control for both lysis and elution. Precise temperature control ranges from room temperature to 120°C, supporting a wide range of reagent programs.



Efficient contamination control measures

- 1) Negative-pressure HEPA filtration;
- 2) UV disinfection ;
- 3) Anti-dripping design.

SPECIFICATIONS

Model	Npex 192
Throughput	1 ~ 192
Processing Volume	30 ~ 1000 μ L
Compatible Consumables	  <p>96 deep-well-plate (1 ml reaction volume)</p> <p>Vertical mixing sleeve</p>
Magnetic Bead Residue	\leq 1%
Temperature Control Range	Temperature control separately for lysis and elution. Temperature range from room temperature to 120°C.
Vertical Mixing	8 gears adjustable
Operating Language	Built-in bilingual (Chinese and English) operating languages.
Operation Mode	7-inch color LCD touch screen operation
Protocol Management	Flexible to create, edit and delete protocols
QR Code Scanning	With built-in barcode scanner, automatic scanning, identification and running protocols
Operation Monitoring	Visual monitoring of nucleic acid extraction progress
Program Storage	> 500 programs can be stored
Contamination Control	1) Negative-pressure HEPA filtration; 2) UV disinfection ; 3) Anti-dripping design
Auto Power-off	Auto power-off after UV disinfection
Power failure protection	Choose freely whether or not to continue the experiment when the power is on again after cutting off
Connection Port Type	USB port
Network Connection	Ethernet port for remote control
Dimensions	710 mm \times 535 mm \times 515 mm (L \times W \times H)
Weight	55 kg
Power Supply	AC 220V, 50Hz

EXTRACTION MENU

Product Name	Sample Type	Ordering Code
Virus Nucleic Acid Extraction Kit	Swab media samples	T518H
Animal Virus DNA and RNA Extraction Kit	Nasopharyngeal swab, environmental samples, serum samples, blood swab and tissue sample	T809H

*More extraction reagents can be customized for your applications.

APPLICATION AREA



Liquid Handling System

▶▶ PANAS401

PANA S401

Automated Pipetting Workstation



Tianlong PANA S401 Automated Pipetting Workstation is designed as an important tool for PCR Setup, which automates tedious, error-prone manual tasks and provides consistent sample mixing and excellent pipetting performance to standardize your results. Tianlong PANA S401 Automated Pipetting Workstation together with the automated nucleic acid extractor and real-time PCR system, a fully automated, high-throughput, and standardized process of nucleic acid detection can be realized in your lab.

PROVIDE INTEGRATED PCR LAB SOLUTION



GeneMix Pro



GeneRotex 96



PANA S401



Gentier 96E

FEATURES

Precise PCR Setup

Automated PCR setup, 4 loading channels, up to 768 samples per setup



Optimized efficiency and standardized procedures

Provide consistent sample mixing and excellent pipetting performance to standardize your results



Highly compatible with various PCR kits

Compatible with regular PCR tubes, PCR strip tubes and PCR plates (up to 384- well x 2)



Excellent anti-contamination measures

Minimized contamination measures like directional exhaust with HEPA filters, internal negative pressure system



User-friendly

Starting preparation programs with just one click, multiple setups for different tests in one run

SPECIFICATIONS

Model	PANA S401
Sample Loading Channels	4 loading channels
Throughput	96 samples; up to 768 samples per one go
Pipetting Volume	1-1000 μ L
Tip Volume	5-50 μ L; 50-1000 μ L
Performance	Below 15 μ L: accuracy: A \leq 2%, repeatability: CV \leq 3.0% 15 μ L-50 μ L: accuracy: A \leq 1.5%, repeatability: CV \leq 1.5% Above 50 μ L: accuracy: A \leq 1.0%, repeatability: CV \leq 1.2%
Liquid Level Detection	Pressure-sensing level detection; aspiration with the liquid level to ensure accuracy
Compatible Consumables	Compatible with 0.1mL/0.2mL 8-tube strips, 96-well PCR plates
Operating System	Windows 10 Pro Edition, bilingual interface in Chinese/English
Connectivity	USB port, RS232 port
Overall Size	860mm(L)x733mm(W)x746mm(H)
Instrument Weight	100kg (net)
Operating Environment	Temperature: 15°C-35°C; humidity: \leq 70%
Power Supply	AC 220V; 50Hz

Real-time PCR System

- ▶▶ Gentier mini Series
- ▶▶ Gentier 48
- ▶▶ Gentier 96
- ▶▶ Gentier X3

Gentier Mini--series

Portable Real-Time PCR System



Portable

Fast

Always Online

Portable, fast, and always online, Gentier mini series are designed for mobile, small laboratories, or on-site testing. With excellent performance and portability, Tianlong Gentier mini series revolutionize and solve the problem of limited space and fragmented samples in laboratories, and make your experiments easier to use, more accurate, and more efficient. They can be widely applied in animal disease and infectious disease prevention and control, food safety, scientific research, and other fields. Gentier mini series are now a good companion for animals.

FEATURES



Portable and convenient

Compact and lightweight, Gentier mini series help save bench space and can be moved flexibly to your mobile laboratory for on-site testing. No need for fluorescence calibration after moving.



1s for 16 wells fluorescence scanning

With 2 fluorescence channels, Gentier Mini series can complete all 16 wells fluorescence scanning within 1s, which improves efficiency for lab professionals.



Various control modes

Mode 1: standalone control with 7-inch touch-screen; Mode 2: computer software control; Mode 3: remote control via tablet



Powerful software analysis

Gentier Mini series offers multiple functions including qualitative analysis, absolute quantitative analysis, relative quantitative analysis, SNP analysis, etc.



Instant result analysis

Mode1: direct analysis on Gentier Mini series and results can be printed directly when connected to a thermal printer; Mode 2: analysis through PC software.



Always online

Various ways to stay online: Wifi, USB and internet interface

SPECIFICATIONS

Model	Gentier mini	Gentier mini+
Throughput	1-16	
Fluorescence Channels	2	4
Scanning Time	1s for all wells fluorescence scanning	
Dye Compatibility	Channel 1: FAM, SYBR Green I, SYTO 9, Eva Green, LC Green Channel 2: HEX, VIC, TET, JOE	Channel 1: FAM, SYBR Green I, SYTO 9, Eva Green, LC Green Channel 2: HEX, VIC, TET, JOE Channel 3: Texas Red, ROX Channel 4: Cy5
Suitable Consumables	0.2mL transparent single tubes and 0.2mL transparent 8-strip tubes	
		
Heating Rate	Average heating rate of 3.3°C/s; maximum heating rate of 5.0°C/s.	
Cooling Rate	Average cooling rate of 3.0°C/s; maximum cooling rate of 4.0°C/s.	
Temperature Accuracy	≤0.1°C	
Lightsource	High-brightness, long-life, maintenance-free LED light source	
Special Temperature Protocol	Conventional PCR, touchdown PCR, long PCR, etc.	
Hot Lid Temperature	40°C-110°C	
Control Modes	Mode 1: 7-inch touch-screen of Gentier mini series Mode 2: computer software Mode 3: remote control via Windows tablet	
Key Applications	Qualitative analysis, absolute quantitative analysis, relative quantitative analysis, endpoint fluorescence analysis, melting curve analysis, and SNP analysis, etc.	
Result Analysis	1: Direct analysis on Gentier mini series and results can be printed directly when connected to a thermal printer; 2: Analysis through PC software.	
Experiment Files	Files can be downloaded by webpage login	
Network Connection	Internet interface, USB, WiFi	
Power Failure Protection	Automatically start running experiments after power supply	
Specifications and Weight	205mm(L)*156mm(W)*153mm(H); 3.2kg	

Gentier 48E/48R

Real-time PCR System

The Tianlong Gentier 48E/48R Real-time PCR System incorporates innovative optical technologies with powerful software to provide maximal reliability and efficiency for all your real-time PCR needs. It is designed to meet the needs of small and medium-sized laboratories, mobile laboratories, and on-site testing. With the 4/2 fluorescence channels, Gentier 48E/48R can process 48 samples in one run. It can make your experiments easier to use, more accurate, and efficient of its excellent performance and portability.



Model	Throughput	Gradient	Channel 1	Channel 2	Channel 3	Channel 4
			FAM, SYBR Green I, etc.	VIC, HEX, TET, JOE, etc.	ROX, Texas Red, etc.	Cy5, etc.
Gentier 48E	1-48	Yes	✓	✓	✓	✓
Gentier 48R			✓	✓		



48 samples to be scanned in 2s

Only 2s for all 48 wells of fluorescence scanning can significantly reduce testing time and improve efficiency for lab professionals.



More convenient with two configurations

Standalone configuration: 7-inch touch screen, direct print sample amplification curve, and CT values by connecting to a thermal printer(optional); PC control configuration: PC software control via connection, one PC can max control 10 instruments.



Efficient temperature control

Gentier 48 E/R only takes 40 minutes to complete a standard PCR amplification process. Temperature accuracy is controlled within 0.1°C.



User-friendly and more flexible

Small in size and light in weight, it can be moved flexibly to your mobile laboratory for on-site testing.



Powerful software analysis

Gentier 48 E/R offers multiple functions including relative quantification, absolute quantification, melting curve analysis, SNP analysis, and is compatible with other fluorescence analysis functions based on the isothermal amplification technique.

FEATURES

SPECIFICATIONS

Model	Gentier 48E	Gentier 48R
Throughput	1-48	
Fluorescence Channels	2	4
Fluorescence Scanning Time	2s	
Optical System		
Light Source	High-brightness, long-life and maintenance-free LED light source	
Detector	Photodiodes (PDs)	
Excitation Range	CH1: 470nm CH2: 523nm CH3: 570nm CH4: 638nm	
Detection Range	CH1: 525nm CH2: 564nm CH3: 610nm CH4: 685nm	
Fluorescence Dynamic Range	Adjustable	
Sample Dynamic Range	1-10 ¹⁰ copies	
Thermal Block		
Heating Method	Peltier	
Heating Rate	≥ 8.0°C/s	
Cooling Rate	≥6.2°C/s	
Temperature Accuracy	≤ 0.1°C	
Gradient Range	1°C-40°C	
Gradient Block	8 row	
Special Temperature Protocol	Thermal gradients PCR, Long PCR, Touch Down PCR	
Sample Testing Linearity and Repeatability	Linear correlation: $r \geq 0.999$ Repeatability: cycle threshold (Ct) value $CV \leq 0.5\%$	
Software Functions		
Control Modes	Mode1: 7 inch touch screen. Mode 2: PC direct control	
Power Failure Protection	Automatically start running experiments after power supply, no need to wait PC software	
Data Storage and Transmission	Upload and download through USB disk, 1000 results can be stored in machine	
Reporting Function	Templates reserved; customized experiment report	
Key Applications	Relative quantification, absolute quantification, melting curve analysis, SNP analysis	
Others		
Operating System for PC	Win7/Win10/Win11	
Power Supply and Power Consumption	AC 100-240V, 50-60Hz; 600VA	
Weight	11 Kg (net)	
Instrument Dimension	260*400*260mm (W*L*H)	
Suitable Consumables	0.2ml clear non-skirt 48-well plates, 8-tube strips, single tubes, etc	

Gentier 96E/96R

Real-time PCR System

The Tianlong Gentier 96E/96R Real-Time PCR System is designed to meet the experimental needs of high-end laboratories. With the 6 (96E)/4 (96R) fluorescence channels, Gentier 96E/96R can process 96 samples in one run. With the powerful and efficient temperature control system, easy-to-use software, user-friendly operational designs, Tianlong Gentier 96E/96R can provide maximal reliability and efficiency for all your real-time PCR needs.



Model	Throughput	Gradient	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6
			FAM, SYBR Green I, SYTO 9, Eva Green, LC Green	HEX, VIC, TET, JOE	ROX, Texas Red, etc.	Cy5	Alexa Fluor 680	FRET
Gentier 96E	1-96	Yes	✓	✓	✓	✓	✓	✓
Gentier 96R			✓	✓	✓	✓		

FEATURES



96 samples to be scanned in 7s

Only 7s for all 96 wells of fluorescence scanning can significantly reduce testing time and improve efficiency for lab professionals.



Efficient temperature control

Based on the Peltier heating/cooling method, the maximum heating ramp rate is $>6.1^{\circ}\text{C/s}$ and the maximum cooling ramp rate is $>5.0^{\circ}\text{C/s}$.



Power failure protection design

Power failure protection design can recover the experiment automatically, with no more concern about instantaneous power failure.



More convenient with two configurations

Standalone configuration: 10.4-inch touch screen, PC control configuration: PC software control via connection



Powerful software analysis

Gentier 96 E/R offers various data analysis functions, including absolute quantitative analysis, relative quantitative analysis, SNP analysis, melting curve analysis, etc.

SPECIFICATIONS

Model	Gentier 96E	Gentier 96R
Throughput	1-96	
Fluorescence Channels	6	4
Fluorescence Scanning Time	7s	
Optical System		
Light Source	High-brightness, long-life and maintenance-free LED light source, excitation from the top	
Detector	Photodiode (PD), top scanning	
Excitation Range	CH1: 465nm CH2: 527nm CH3: 580nm CH4: 632nm CH5: 680nm CH6: 465nm	
Detection Range	CH1: 510nm CH2: 563nm CH3: 616nm CH4: 664nm CH5: 730nm CH6: 616nm	
Fluorescence Dynamic Range	Adjustable	
Sample Dynamic Range	1-10 ¹⁰ copies	
Thermal Block		
Heating Method	Peltier	
Heating Rate	>6.1°C/s	
Cooling Rate	>5.0°C/s	
Temperature Uniformity	±0.1°C	
Temperature Accuracy	≤0.1°C	
Gradient Range	1°C-40°C	
Gradient Block	12 row	
Special Temperature Protocol	Thermal gradients PCR, Long PCR, Touch Down PCR	
Sample Testing Linearity and Repeatability	Linear Correlation: r/ >0.999 Repeatability: cycle threshold (Ct) value CV <0.5%	
Software Functions		
Control Modes	Mode1: 10.4 inch touch screen Mode 2: PC direct control	
Power Failure Protection	Automatically start running experiments after power supply, no need to wait PC software	
Data Storage and Transmission	Upload and download through USB disk, 1000 results can be stored in machine	
Reporting Function	Templates reserved; customized experiment report	
Key Applications	Relative quantification, absolute quantification, melting curve analysis, SNP analysis	
Others		
Operating System for PC	Win7, Win10	
Power Supply and Power Consumption	AC 100-240V, 50-60Hz; 900VA	
Weight	30kg (net)	
Instrument Dimension	355mm*475mm*484mm (W*L*H)	
Suitable Consumables	0.2 mL 96-well plates, 8-tube strips, single tubes (clear, frosted and white)	

GentierX3 Series

Real-time PCR System

Tianlong GentierX3 Series Real-time PCR System innovates in flexibility and allows users to control three independent blocks in the same PCR system, saving your time and budget. Maximum 3×32-well samples can be run in three different protocols on three independent thermal blocks simultaneously. With the powerful and efficient temperature control system, user-friendly operational designs, Tianlong Gentier X3 Series can provide maximal reliability and efficiency for all your real-time PCR needs.



Advanced flexibility

Improved workflow

3×32
Maximum throughput

FEATURES



Multi-block design to meet different needs

GentierX3 Series has three independently controlled blocks. Maximum 3×32-well samples can be run in three different protocols on three independent thermal blocks simultaneously.



Only 2s for 32 wells fluorescence scanning

With 6/4 fluorescence channels, GentierX3 Series can complete 32 wells of fluorescence scanning in one block within 2s, which improves efficiency for lab professionals.



Efficient temperature control

3 independent thermal blocks with compensation heating function, temperature accuracy, and temperature precision are all $\leq 0.1\text{ }^{\circ}\text{C}$; hot lid with innovative pressure sensing technology ensures that consumables do not deform and reagents do not evaporate



Powerful software analysis

GentierX3 Series can offer multiple functions including absolute quantification analysis, relative quantification analysis, melting curve, high resolution melting (HRM), genotyping, endpoint fluorescence, etc.



User-friendly design for professionals

Built-in 13.3-inch full-color touch, adjustable for different angles; Standalone configuration and PC control configuration; Power failure protection design can recover the experiment automatically;

SPECIFICATIONS

	Gentier X3E	Gentier X3S	Gentier X3R	Gentier X3C
Model				
Touch Screen	YES	NO	YES	NO
Stand Alone Operation	✓	✗	✓	✗
Throughput	32 x 3			
Fluorescence Scanning Time	2s for 32 wells fluorescence scanning			
Fluorescence Channels	6		4	
Dye Compatibility	Channel 1: FAM, SYBR Green I, etc. Channel 2: HEX, TET, VIC, JOE, etc. Channel 3: Texas Red, ROX, etc. Channel 4: Cy5, etc. Channel 5: Alexa Fluor 680, etc. Channel 6: Tamra, Cy3, NED, etc.		Channel 1: FAM, SYBR Green I, etc. Channel 2: HEX, TET, VIC, JOE, etc. Channel 3: Texas Red, ROX, etc. Channel 4: Cy5, etc.	
Heating Rate	Average Heating Rate: $\geq 4.5^{\circ}\text{C/s}$; Max. Heating Rate: $\geq 6.2^{\circ}\text{C/s}$			
Cooling Rate	Average Cooling Rate: $\geq 3.5^{\circ}\text{C/s}$; Max. Cooling Rate: $\geq 5.0^{\circ}\text{C/s}$			
Temperature Accuracy	$\leq 0.1^{\circ}\text{C}$			
Temperature Uniformity	$\pm 0.2^{\circ}\text{C}$			
Temperature Precision	$\leq 0.1^{\circ}\text{C}$			
Special Temperature Protocol	Touchdown step, long step, gradient step, standard step and so on.			
Repeatability	$\text{CV} \leq 1\%$			
Linear Correlation	$ r \geq 0.995$			
Sample Cabin	Three independent sample cabin			
Lightsource	High-brightness, long-life, maintenance-free LED light source			
Key Applications	Absolute quantification analysis, relative quantification analysis, melting curve, high resolution melting (HRM), genotyping, end point fluorescence, etc.			
Data Storage	1000 results can be stored in machine			
Power Failure Protection	Automatically start running experiments after power supply			
Communication Specification	Network Port: TCP/IP protocol; Ethernet connection; USB Port: 2.0;			
Power Supply and Power Consumption	AC 100~240V;50/60Hz; 1000VA;			
Suitable Consumables	 Conventional 0.2 mL 8-strip PCR tube (clear, white)		 Tianlong specialized 0.2 mL 8-strip PCR tube (clear, white)	
Dimension	380mm(L) × 410mm (W) × 395mm (H)			
Weight	34kg			

PCR Thermal Cycler

▶▶ Genesy

Genesy 96T

PCR Thermal Cycler

Ultimate performance to meet your diverse needs



The PCR thermal cycler Genesy 96T from Tianlong is easy to operate with a 7-inch color LCD touch screen. By taking advantage of its excellent thermal block, Genesy brings you homogeneous and accurate temperatures, rapidly and precisely controlled ramp rates, and fast and reproducible PCR cycles. The programming of Genesy is also remarkably simple and intuitive. Thanks to all these advantages, Genesy is your ideal equipment for PCR.

FEATURES



7-inch touch screen operation

With 7-inch LCD touch screen, Genesy can function quickly through simple, one-touch commands. Compact design with small footprint, it is also easy to move.



Gradient temperature control

Genesy block features remarkable gradient technology to ensure ramp rates are identical in both gradient and normal modes. Optimized perform assay crosses a maximal 40°C range via 12 gradient.



Intuitive software design

Intuitive software design and friendly interface make it simple even for first time users. Specialized user training is not required.



Flexible to share experiment protocols

1000 experiment protocols can be saved in Genesy. Protocols can also share easily between different Genesys via USB flash disk. Personal protocols can be saved in your USB flash disk to quickly set up your own experiment on any Genesys.



Power failure protection design

Unique power-off protection function can save all the set configurations after power-off, and allow the experiment continues when power-on.

SPECIFICATIONS

Model	Genesy
Reaction volume	0-100 μ L
Thermo block	Aluminum
Compatible consumables	   0.2mL single tube 0.2mL 8 strip tubes 0.2mL 96-well plate (skirted, semi-skirted, unskirted)
Temperature control range of the block	4 $^{\circ}$ C-99 $^{\circ}$ C
Temperature control mode	Tube mode & Block mode
Heating technology of the block	Peltier
Gradient block	12 row
Gradient temperature span	1 $^{\circ}$ C-40 $^{\circ}$ C
Gradient temperature range	30 $^{\circ}$ C-99.9 $^{\circ}$ C
Lid temperature range	40-110 $^{\circ}$ C
Temperature uniformity	\pm 0.2 $^{\circ}$ C
Block temperature accuracy	\pm 0.1 $^{\circ}$ C
Heating rate	Average Heating Rate:2.5 $^{\circ}$ C/s; Max. Heating Rate: 3.5 $^{\circ}$ C/s
Cooling rate	Average Cooling Rate:2.0 $^{\circ}$ C/s; Max. Cooling Rate: 2.5 $^{\circ}$ C/s
Interfaces	USB, Ethernet
Dimensions(W*D*H)	260mm*400mm*260mm
Weight	11Kg
Power supply	AC 100-240V, 50-60Hz
Max. Power consumption	600VA
Running noise	<55dB

Molecular Diagnosis All-in-one Solution

▶▶ Panall 8000

▶▶ iGenecase 1600

Panall 8000

All-in-one Molecular Diagnosis System

Fewer steps. Walkaway workflow. High quality results.



Sample in-result
out system



One key
operation and
walkaway
workflow



Closed system
minimizes
contamination



12.1-inch
intuitive
touchscreen



No extra
equipment
needed



No interpretation
of results
needed



8 samples
can be tested
at the same time



Quality results
you can rely on



Tianlong Panall 8000 All-in-one Molecular Diagnosis System is a simple and secure molecular diagnosis system that integrates the functions of sample tube decapping/capping, sample loading, nucleic acid extraction, PCR setup, PCR detection and result analysis, which can realize a true sample in -result out detection process and bring great convenience for professionals with only one-key operation.

COMPATIBLE CONSUMABLES



Specialized sample tube



Specialized nucleic acid extraction kit



Specialized nucleic acid detection kit



Sample in -result out system

TESTING MENU

Category	Product Name	Target Pathogen
Respiratory Infections	Respiratory 7 Types Pathogen Multiplex Nucleic Acid Detection Kit	FluA, FluB, RSV, ADV, HRV, HPIV and MP
	Respiratory 8 Types Pathogen Multiplex Nucleic Acid Detection Kit	FluA, FluB, RSV, ADV, HRV, HPIV, MP and SARS-CoV-2
	Respiratory 17 Types Pathogen Multiplex Nucleic Acid Detection Kit	FluA, FluA/H1, FluA/H3, FluB, RSV, ADV, HRV, HPIV1, HPIV2/4, HPIV3, CP, MP, CorHKU1/OC43, CorNL63/229, HMPV, HBoV and SARS-CoV-2
Gastrointestinal Infections	Gastrointestinal Bacteria Virulence Gene Nucleic Acid Detection Kit	21 types of common gastrointestinal bacteria virulence genes including ipaH, cdtA, aggR, eae, O1rfb, ompW, cdtB, stla, stx2, SEN1383, invA, cdtC, ETEC—lt, tlh, O139rfb, ctxA, foxA, stlb, stx1, STY4669, STM0159
Sexually Transmitted Infections	Human Papilloma Virus (HPV) Multiplex Genotypes Nucleic Acid Detection Kit	18 types of HPV including 16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68, 73 and 82
	Sexually Transmitted Infections Multiplex Nucleic Acid Detection Kit	9 types of STIs including CT, NG, UU, TV, MG, MH, UP, HSVI, HSVII

*Other test projects are under development and will come soon.

RESULT ANALYSIS



Figure 1: Positive standard amplification curve and result analysis (Respiratory 17)



Figure 2: Negative standard amplification curve and result analysis (Respiratory 17)



Figure 3: Positive standard amplification curve and result analysis (Gastrointestinal 21)



Figure 4: Negative standard amplification curve and result analysis (Gastrointestinal 21)

ORDERING INFORMATION

► Nucleic acid detection kit



- Ready-to-use freeze-dried type
- Multiple pathogens detection in a single run
- Stable at room temperature and cost-effective for transportation
- Anti-contamination design with liquid paraffin preventing evaporation
- High sensitivity and high accuracy

Respiratory Infections

Product Name	Respiratory 7 Types Pathogen Multiplex Nucleic Acid Detection Kit (Fluorescence PCR Method; Freeze-dried)	Respiratory 8 Types Pathogen Multiplex Nucleic Acid Detection Kit (Fluorescence PCR Method; Freeze-dried)	Respiratory 17 Types Pathogen Multiplex Nucleic Acid Detection Kit (Fluorescence PCR Method; Freeze-dried)
Cat.No	P763H	P347H	P764H
Specification	24T/Kit(Freeze-dried)		
Specimen	Oropharyngeal swab		
Sensitivity	200 copies/mL		
Precision	≤5%		
Storage & Validity	2-30°C for 12 months		
Compatible Extraction Kit	T373H-Tianlong Viral DNA and RNA Extraction Kit (Panall 8000 MD System, Pre-filled)	T373H-Tianlong Viral DNA and RNA Extraction Kit (Panall 8000 MD System, Pre-filled)	T340H-Tianlong Viral DNA and RNA Extraction Kit (Panall 8000 MD System, Pre-filled)
	T819H-Tianlong Viral DNA and RNA Extraction Kit (Panall 8000 MD System, Pre-filled)		

Gastrointestinal Infections

Product Name	Gastrointestinal Bacteria Virulence Gene Nucleic Acid Detection Kit (Fluorescence PCR Method; Freeze-dried)
Cat.No	P344H
Specification	24T/Kit(Freeze-dried)
Specimen	Stool samples, anal swab samples, bacterial culture samples
Sensitivity	500 copies/mL
Storage & Validity	2-30°C for 12 months
Compatible Extraction Kit	T813H-Tianlong Nucleic Acid Extraction Kit (Panall 8000 MD System, Pre-filled)

Sexually Transmitted Infections

Product Name	Human Papilloma Virus (HPV) Multiplex Genotypes Nucleic Acid Detection Kit (Fluorescence PCR Method; Freeze-dried)
Cat.No	P828H
Specification	24T/Kit(Freeze-dried)
Specimen	Female cervical epithelial cells
Sensitivity	500 copies/mL
Storage & Validity	2-30°C for 12 months
Compatible Extraction Kit	-

▶ Nucleic acid extraction kit



Product Name	Cat.No	Specification	Sample Type
Viral DNA and RNA Extraction Kit	T340H	24T/Kit(Pre-filled) 1T/ Strip x 24 Strips	Oropharyngeal swab samples
Viral DNA and RNA Extraction Kit	T373H	24T/Kit(Pre-filled) 1T/ Strip x 24 Strips	Oropharyngeal swab samples
Viral DNA and RNA Extraction Kit	T819H	24T/Kit(Pre-filled) 1T/ Strip x 24 Strips	Oropharyngeal swab samples
Nucleic Acid Extraction Kit	T813H	24T/Kit(Pre-filled) 1T/ Strip x 24 Strips	Stool samples and bacterial culture samples
Viral DNA and RNA Extraction Kit(HPV)	-	24T/Kit(Pre-filled) 1T/ Strip x 24 Strips	Cervical swab samples

APPLICATION AREA



PARAMETERS

Model	Panall 8000
Sample Throughput	1~8 samples at the same time
Pipetting Range	20 μ L ~250 μ L
Detection time	1~2 hours, relying on the reagent
Channel and Available Fluorescein	Channel 1: FAM, SYBR Green I, etc. Channel 2: VIC, HEX, TET, JOE, etc. Channel 3: ROX, Texas Red, etc. Channel 4: Cy5, etc.
Pipetting Performance	20 μ L \leq V < 40 μ L: accuracy: A \leq 5.0%, repeatability: CV \leq 3.0% 40 μ L \leq V < 100 μ L: accuracy: A \leq 3.0%, repeatability: CV \leq 1.5% V \geq 100 μ L: accuracy: A \leq 1.0%, repeatability: CV \leq 1.0%
Extraction Heating Rate	Average heating rate: \geq 1.5 $^{\circ}$ C/s;
Extraction Temperature Accuracy	\leq 1.0 $^{\circ}$ C
PCR Heating Rate	Average heating rate: \geq 4.5 $^{\circ}$ C/s Maximum heating rate: \geq 6.1 $^{\circ}$ C/s
PCR Cooling Rate	Average cooling rate: \geq 3.5 $^{\circ}$ C/s; Maximum cooling rate: \geq 5.0 $^{\circ}$ C/s.
PCR Temperature Accuracy	\leq 0.1 $^{\circ}$ C
Sample Testing Linearity and Repeatability	Linear correlation: /r/ \geq 0.998 Repeatability: CV \leq 1.5%
Information Management	Sample information: with scanner inside, Panall 8000 can scan and record the sample information; Reagent information: visual system can automatically identify the kit information and run the corresponding program
Minimized Contamination	Directional exhaust & negative pressure system; HEPA filtration; UV disinfection; Shortest fixed path for sample operation
Data Storage	1000 experiment files can be stored
Language	Chinese and English
Power Supply and Power Consumption	AC 100~240V, 50/60Hz; 1200VA
Communication Specification	Internet Port: TCP/IP protocol, Ethernet connection USB Port: USB 2.0
Dimension	750mm(L) \times 350mm (W) \times 600mm (H)
Weight	80Kg

iGenecase 1600

Diagnostics-in-a-Suitcase

Take your testing anywhere with this lab in a suitcase



Tianlong suitcase laboratory iGenecase 1600 contains all necessary devices (GeneFlex Nucleic Acid Extractor, Gentier mini Portable Real-Time PCR System) and compatible consumables for PCR detection. With mobile power supply, professionals can start the experiment anywhere. iGenecase 1600 can be applied in various scenarios including animal disease and infectious disease prevention and control, food safety, scientific research, and other fields. The small, mobile laboratory fitting in a suitcase can deliver test results quickly and accurately, which is ideal for your on-site testing needs.

KEY CONFIGURATIONS

GeneFlex 16

Automatic Nucleic Acid Extractor

Flexible Throughput

Small Footprint

Immediate Results



reddot award
winner

Gentier mini Series

Portable Real-Time PCR System



Portable

Fast

Always Online

LAYOUT IN SUITCASE LAB

Portable
Real-time
PCR System

Power Strip and
Power Cable

Mobile Power
Supply

Pipette

Automatic
Nucleic
Acid Extractor

Mini
Centrifuge

Mini
Vortexer

1000 μ L
Filter Tips

20 μ L
Filter Tips

200 μ L
Filter Tips

PCR Racks

PCR Tubes

FEATURES



Portable to meet on-site testing need

Lab in a suitcase is portable and flexible to meet your on-site testing needs. Various scenarios applications include infectious disease prevention and control, food safety and other fields.



Flexible to take your testing anywhere

With a mobile power supply, professionals can start the experiment anywhere. No need to worry about no power supply outdoors and sudden power off indoors



Lab in a suitcase to be more convenient

The small, mobile laboratory fitting in a suitcase can deliver test results quickly, which is ideal for your on-site testing needs. Crash-proof design can ensure the stability of the suitcase lab.



Highly efficient extraction and detection

1s to complete fluorescence scanning of all wells
15 min to complete sample nucleic acid extraction



Easy and convenient to start the experiment

1 click to start nucleic acid extraction
3 clicks to complete real-time PCR operations

APPLICATION AREA

Infectious disease prevention and control



Food safety testing



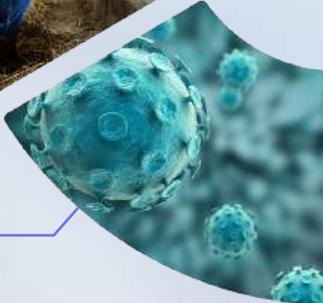
Animal diseases prevention and control



Import and export inspection and quarantine



Bioterrorism investigation



Emergency rescue



SPECIFICATIONS

iGeneCase 1600 Diagnostics-in-a-Suitcase	
Weight	33 kg
Dimensions	500mm (L) × 300mm (W) × 755mm (H)
Automatic Nucleic Acid Extractor	
Model	GeneFlex 16
Sample Throughput	16
Maximum Processing Volume	1700µL
Recommended Sample Volume	200-500µL
Compatible Consumables	Customized 96-well deep-well plates, 6-tube strips
Mixing Method	Rotary Mixing
Rotation Speed	100~3000rpm
Temperature Control Range	Temperature control separately for lysis and elution. Temperature range from 30°C to 120°C.
Temperature Control Accuracy	Heating speed: 4.0±0.2°C/s. Temperature accuracy: ±1.0°C. Temperature uniformity: ≤1.0°C.
Reagent Identification	Automatic identification of reagent information and running the assays
Magnetic Bead Residue	≤1%
Weight	7.4 Kg(net)
Dimensions	210mm (L) × 229mm (W) × 242mm (H)
Portable Real-Time PCR System	
Model	Gentier mini Gentier mini+
Throughput	16 16
Fluorescence Channels	2 4
Compatible Consumables	0.2mL transparent single tubes, and 8-strip tubes
Dye Compatibility	F1: FAM, SYBR Green I, LC Green, Eva Green, SYTO 9 F2: HEX VIC TET JOE F1: FAM, SYBR Green I, LC Green, Eva Green, SYTO 9 F2: VIC, HEX, TET, JOE; F3: ROX, TEXAS-RED; F4: CY5
Heating Rate	Average heating rate: 3.3°C/s; Maximum heating rate: 5.0°C/s
Cooling Rate	Average cooling rate of 3.0°C/s; Maximum cooling rate of 4.0°C/s.
Temperature Accuracy	≤ 0.1°C
Weight	3.2Kg
Dimensions	205mm (L) × 156mm (W) × 153mm (H)

ATP Hygiene Monitoring System

▶▶ Biolum

Biolum

Portable ATP Hygiene Monitoring System

Your reliable hygiene safety guardian

Fast

Result in 10s for one test

Sensitive

Detect down to 10^{-16} mol of ATP

Template

Pre-configured templates including different industries and locations, together with upper and lower limits can start your test immediately

Low Consumption

Using Li-ion battery that can work more than 8h continually

Powerful Memory Capacity

256 test plans, 256 user IDs, 2000 test program, 10000 results

User-friendly

3.5 inch high resolution color screen, intuitive menus, simple to use

Connectivity

Connect PC via USB, connect printer or app in Android system mobile phone through Bluetooth

Highly Portable

Within 300g with battery



Biolum Portable ATP Hygiene Monitoring System, a powerful tool for implementing and managing your hygiene monitoring program. Taking advantages of the progressive testing swab, the hygiene level will be evaluated in seconds, and the results can be visualized on screen. Featuring the state-of-art technology, the Biolum is a user-friendly, flexible, and accurate quality monitoring system. It has all the features to maximize its value to your business.

COMPATIBLE SWABS

QuickSwab

ATP QuickSwab is simple to use, all-in-one and pen-sized sampling device, with the pre-moistened swab that offers extraordinary accuracy and precision for many Industrial applications.



1 Sampling & Reaction together, easy to use

2 Pre-moistened swab tip

3 Accurate, high reproducibility

4 10s for one test

Test Procedure



Device self-checking



Checking the swab



Sampling



Installation



Injection



Mixing



Insertion



Measuring



Bluetooth printer

LiquSwab

LiquSwab is an easy to use ATP liquid test work with Biolum Hygiene monitoring system from Tainlong. The swab is available in two formats: Free and Total. LiquSwab Free measures dissolved ATP that is free in liquid (non-microbial ATP). LiquSwab Total measures both free ATP and microbial ATP (non-microbial and microbial ATP) in the liquid. The difference between Total and Free provides an indication of microbial contamination in the samples.



1 Easy to operate

2 10s for one test

3 12 month self life at 2-8°C, 4 weeks self life at 21-25°C

4 Detects down to 10^{-16} mol ATP

Test Procedure



Device self-checking



Checking the swab



Sampling



Installation



Injection



Mixing



Insertion



Measuring



Bluetooth printer

ACCESSORIES

EternalLight-H

LED Calibration Verification for ATP

EternalLight-H is a reusable device for quick and reliable calibration verification. We recommend incorporating instrument calibration into a quality control program to verify that the Biolum ATP continues to operate correctly and is under control. EternalLight-H provides an all-in-one, reusable positive and negative calibration verification, activated by the click of a button.

By pressing the button on the cap, EternalLight-H will emit a 3 seconds green LED light to indicate power on. EternalLight-H can be used as a positive control when on. In the off state, EternalLight-H can be used as a negative control to remind the user whether the null value is normal.



Test Procedure

Negative test



Biolum self-checking



Checking the EternalLight-H



Insert EternalLight-H into Biolum



Close the lid of Biolum



Press "OK" to start measurement



Record initial RLU results

Instrument No:

Negative EternalLight-H RLU	*
Positive EternalLight-H RLU	

* Record your initial negative RLU. RLU range should be within 0-4.

Positive test



Biolum self-checking



Checking the EternalLight-H



Insert EternalLight-H into Biolum



Press the button on EternalLight-H to turn device on

the light will turn green



Press "OK" to start measurement



Close the lid of Biolum



Record initial RLU results

Instrument No:

Negative EternalLight-H RLU

Positive EternalLight-H RLU

*

***Record your initial positive RLU. RLU range should be within 160-240.**

Interpretation: record your initial positive RLU and negative RLU, if either of the RLU is not within the range, please start calibration.

Calibration



Select in turn "Setting"-
"Help"- "Calibration"



Set the RLU value to 200 RLU



Instrument background calibration



Press the button on EternalLight-H to turn device on



Insert EternalLight-H for calibration

Ensure swab in the front direction



Remove EternalLight-H and close the lid



Continue the calibration process until done



Take positive test to confirm

APPLICATION AREAS



Food Processors



Health Care



Food Service



Environment Protection



Other Industries

SPECIFICATIONS

Model	Biolum
Dimensions	189mmx70mmx35mm
Weight	280g
Detection Limit	10^{-16} moles ATP
Detection Deviation	$\pm 5\%$ or ± 5 RLUs
Self-calibration at Startup	15s or 60s
Real-time Detection Time	10s/test
Memory Capacity	256 test plans, 256 user IDs, 2000 test program and 10000 results
Communication Interface	USB, Bluetooth
Test Repeatability	8%-20%
Correlation Coefficient	$R^2 \geq 0.995$
Power Supply	Rechargeable battery
Running Time	Continuously work for > 8hrs, standby for > 600 hrs
Operating Temperature Range	5-40°C
Operating humidity Range	20-80%

Swabs

Cat.No.	Swabs	Specification	Remark
A017H	QuickSwab	20pieces/package	Surface test
A010H	LiquSwab Total	20pieces/package	Liquid test (Total ATP)
A011H	LiquSwab Free	20pieces/package	Liquid test (Free ATP)

Calibration Verification

Model	EternalLight-H
Service life	5 years
Battery	CR1025 lithium battery (3V)

Agglutination Automated Detection System

▶▶ RBT320

RBT320

Agglutination Automated Detection System

Tianlong RBT320 Agglutination Automated Detection System is designed for the detection of Brucellosis based on the Rose Bengal Test (RBT) method. Designed for automating laboratory workflow, Tianlong RBT320 integrates various functions, including automatic sample loading, sample mixing, photographing, AI image recognition, and result interpretation. With optimized efficiency, RBT320 can process 320 samples per hour and is suitable for large-scale screening of Brucella antibodies. Tianlong RBT320 is highly automated and can empower your lab with maximum efficiency and effectively avoid human errors, the use of the RBT method can also be cost-effective for you lab.



FEATURES

RBT

Standardized detection based on the RBT method

With a temperature monitoring system to ensure the experiment temperature ($22\pm 4^{\circ}\text{C}$) and alarm for abnormality, reaction plates with 2cm in diameter, and 4 minutes reaction time, which fully meet the requirements of RBT Brucellosis detection international standard and ensure results accuracy



Highly efficient to meet large-scale Brucellosis screening needs

Up to 320 samples can be processed per hour with RBT320. The automated instrument with standardized workflow can greatly drive lab efficiency for large-scale screening of Brucella antibodies and save human labor for your lab



Automated workflow and hands-free operation

RBT320 is highly automated and can complete the whole experiment process automatically, which can free professionals from repetitive work and avoid human errors in operation and in result interpretation

AI

AI image recognition to interpret the results

With AI image recognition technology, consistent and precise results can be ensured and effectively avoids errors caused by visual inspection



Highly compatible with your needs

RBT320 can meet reaction conditions of different RBT reagents and is compatible with most common RBT reagents on the market

SPECIFICATIONS

Model	RBT320
Operation Time	24T/4min (320T /hour)
Sample Throughput	320T (16T * 20)
Sample Type	Blood serum
Sample Loading Channels	4
Compatible Sampling Tubes	-Compatible with various specifications of blood collection tubes -1.5mL/2.0mL centrifuge tubes, cryotubes, etc.
Compatible Consumables	-Specialized 8-test PET reaction plates with 2cm reaction diameter -200 μ L disposable tips
Pipetting Repeatability	15 μ L~50 μ L: Er \leq 1.5%, CV \leq 1.5% \geq 50 μ L: Er \leq 1.0%, CV \leq 1.2%
Liquid level Detection	Capacitive/pressure sensing
Report Function	Customized experiment report
Auto Power-off	Automatic shutdown after UV disinfection
Contamination Control	1) Negative pressure system with HEPA filtration; 2) UV disinfection; 3) Droplet capture technology; 4) Fully enclosed biosafety cover protection
Visualized Consumable Recognition	Sample loading status monitoring; Reaction plate loading monitoring; Identification and position of tips; Reagent status monitoring
Operation Language	Chinese/English
Operating Mode	PC software control via connection
Data Connection	Ethernet
Dimensions	1250 mm x 710 mm x 940 mm (L x W x H)
Power Supply	AC 220V, 50Hz

APPLICATION AREAS



Animal CDC

Epidemiological investigation of Brucellosis in animal disease control centers



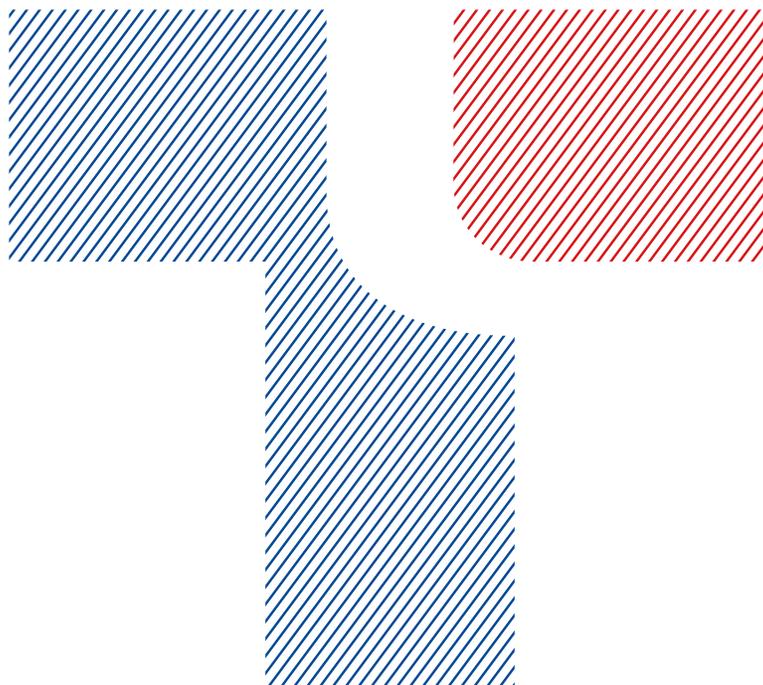
Livestock Farms

Evaluating the immunization effect of the Brucellosis vaccines in cattle, sheep, pigs and isolation detection for variety introduction



Testing Laboratory

Providing testing report when quarantine on transfer



Bring Technology to Life



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