

XI'AN TIANLONG SCIENCE AND TECHNOLOGY CO., LTD. No.389 Zhuhong Road, Xi'an, Shaanxi Province, 710018 TEL. 029-82218051 82085666 FAX. 029-82216680 http://www.medtl.com Email: medtl@medtl.com







Nucleic Acid Extractor Real-Time PCR System PCR Thermal cycler





PRODUCT LIST

HANLONG®

INTRO-DUCING



Xi'an TianLong Science and Technology Co., Ltd. Bring Technology to Life

Tianlong, an innovative high-technology company oriented in molecular diagnostic techniques. Since its foundation in 1997, TianLong keeps devoting itself to provide professional PCR detection devices, auxiliary reagents and high quality solution services for molecular diagnosis market.

Tianlong is a national high-tech enterprise, Tianlong obtained the medical devices and reagents production and operation licenses from SFDA, and also certified to ISO 13485 and ISO 9001 standards. The products of Tianlong include Nucleic Acid Extraction System, Real-time Quantitative PCR detection System, DNA Thermal Cycler for PCR, Portable ATP hygiene monitoring system and all the related reagents including nucleic acid extraction kits, real-time PCR kits, QuickSwab etc.

With the development of our market and the enrichment of our products, Tianlong has set up a distribution network covering all of mainland China. Meanwhile, Tianlong attends AACC in America, MEDICA in German, exhibitions in Brazil, Dubai and other important medical exhibitions to expand international market every year.

As one of the leading molecular diagnostic instruments company in China, Tianlong not only has the advantages in instrument field, but also fully enters the business in reagent field. A 1000 m² GMP standard reagent manufacturing center was established in Suzhou Tianlong.

Today, Tianlong's products and services can be found all over the country. Inspired by the needs of our customers, we adopt advanced technologies and transform them into accessible innovation, bring technology to life.





Libex **Nucleic Acid Extractor**

TianLong Nucleic Acid Extractor Libex utilizes the proven magnetic-particle technology 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 particle-based sample preparation kits filled with unique special reagent ensures the rapid nucleic acid extraction and highly purified products.

Easy Operation

Fast startup and immediate results

With pre-filled extraction kits and differernt packing, you can start your experiments

PRINCIPLE





LIBEX EXTRACTOR AND PREPARATION KITS OFFERING YOU

Reliable result you can depend on

high-quality nucleic acid ready to use in sensitive downstream applications.

Easy, Flexible, and Reliable new generation technology for rapid Extraction

EAJY OPERATION

SIMPLY REMARKABLE SOFTWARE

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





?

0



TIANLONG Arid Estrats



UNIQUE



The proven magnetic particle-based sample preparation kits with special reagents ensure high-performance results of your extraction procedures. The unrivaled ease of use of Tianlong extraction Kits enable fast and reproducible extraction without the need for specialized training. The extensive application range delivers the flexibility that is essential for laboratories from a wide variety of sample types, like whole blood, tissues, FFEP etc

REMOTE CONTROL

Libex is an open system that can be easily operated through a 3.5" screen keyboard combine with an unmatched remote control pad, no external computer is required. The pad connect the main unit via wifi, the "Extraction System" app allows the operator to create, edit or delete the protocols, the protocols can also be easily shared between the main unit and pad, saving your standby time and improve your work efficiency.

FAJT JTARTUP AND IMMEDIATE REJULTS



With magnetic particle-based sample preparation kits, experimenters need only few steps to start the extraction instead of add the sample and reagents one by one, save the work time and also reduce the work errors.

> Tianlong extarction kits offer you different packing size such as 20 ,40, 64 tests which you can easily manage your extraction sample number per run.







 Tianlong single extraction kit work with the single docking make the one sample extaction be possible and simple.



TIANLONG NUCLEIC ACID EXTRACTION KIT

No.	Product Name	Cat.No	Method	Specification Test/Kit
		T101	Magnetic Beads method	Pre-filled, 64T
	-	T102	Magnetic Beads method	Pre-filled, 20T
		T103	Magnetic Beads method	Pre-filled, 40T
		T104	Magnetic Beads method	Pre-filled, 1T(20pieces)
		T105	Magnetic Beads method	Pre-filled, 64T(60µl elution)
		T106	Magnetic Beads method	Pre-filled, 20T(60µl elution)
		T107	Magnetic Beads method	Pre-filled, 40T(60µl elution)
		T108	Spin column method	Non-Pre-filled,32T
1	Viral DNA and RNA Extraction Kit	T109	For HCV	Pre-filled, 64T
				Pre-filled, 1T(20pieces)
		T122	For HCV	Proteinase K(dry powder,11mg for 60T)
			For HCMV,EB	Pre-filled, 20T
		T112	For HCMV,EB	Pre-filled, 64T
		T123	For HCMV,EB	Pre-filled, 1T(20pieces)
				Proteinase K(dry powder,11mg for 60T)
		T113	For HPV	Pre-filled, 20T
			For HPV	Pre-filled, 64T
			For HPV	Pre-filled, 1T(20pieces)
	Plant Tissues Genomic DNA	T086	Magnetic Beads method	Non-Pre-filled,50T
2	Extraction Kit	T085	Magnetic Beads method	Pre-filled, 64T
		T092	Magnetic Beads method	Pre-filled, 20T
3	Animal Tissues Genomic DNA Extraction Kit	т093	Magnetic Beads method	Pre-filled, 64T
		T094	Magnetic Beads method	Non-Pre-filled,50T

No.	Product Name	Cat.No	Method	Specification Test/Kit
		T131	Magnetic Beads method	Pre-filled, 20T
ı	Bacteria Genomic DNA Extraction Kit	T132	Magnetic Beads method	Pre-filled, 64T
		T133	Magnetic Beads method	Non-Pre-filled,50T
		T134	Magnetic Beads method	Pre-filled, 1T(20pieces)
		T140	Magnetic Beads method	Pre-filled, 64T
		T141	Magnetic Beads method	Pre-filled, 20T
;	Whole Blood Genomic DNA Extraction Kit	T142	Magnetic Beads method	Pre-filled, 40T
		T143	Magnetic Beads method	Pre-filled, 1T(20pieces)
		T144	Magnetic Beads method	Non-Pre-filled,50T
		T150	Magnetic Beads method	Pre-filled, 64T
	DBS (Dried Blood Spot) Genomic DNA	T151	Magnetic Beads method	Pre-filled, 20T
	Extraction Kit	T152	Magnetic Beads method	Pre-filled, 40T
		T153	Magnetic Beads method	Pre-filled, 1T(20pieces)
		T161	Magnetic Beads method	Pre-filled, 1T(20pieces)
,	FFPE Genomic DNA Extraction Kit —	T162	Magnetic Beads method	Non-Pre-filled,20T
7 FFPE	FFPE Genomic DNA Extraction Kit —	T163	Spin column method	Non-Pre-filled,20T
		T164	FFPE dewaxed solution	100mL
		T171	Magnetic Beads method	Pre-filled, 1T(20pieces)
	Free Circulating DNA Extraction Kit	T172	Magnetic Beads method	Non-Pre-filled,20T
		T173	Spin column method	Non-Pre-filled,20T(For Tumor detection)
		T135	Magnetic Beads method	Pre-filled, 64T
•	TB-DNA Extraction Kit	T136	Magnetic Beads method	Pre-filled, 20T
	—	T137	Magnetic Beads method	Pre-filled, 1T(20pieces)
		T181	Magnetic Beads method	Pre-filled, 20T
0	Stool DNA/RNA Extraction Kit	T182	Magnetic Beads method	Pre-filled, 64T
	—	T183	Magnetic Beads method	Pre-filled, 1T(20pieces)
	Buccal Swabs DNA	T191	Magnetic Beads method	Pre-filled, 20T
1	Extraction Kit	T192	Magnetic Beads method	Pre-filled, 64T
2		T196	Magnetic Beads method	Pre-filled, 20T
2	Saliva DNA Extraction Kit —	T197	Magnetic Beads method	Pre-filled, 64T
3	Amniotic Fluid DNA Extraction Kit	T201	Magnetic Beads method	Pre-filled, 20T
3		T202	Magnetic Beads method	Pre-filled, 64T
		Т936	Magnetic Beads method	Pre-filled, 1T(20pieces)
4	Plasmid DNA Extraction Kit	T901	Magnetic Beads method	Pre-filled, 64T
	—	T935	Enzyme	Rnase A 25g/tube(Dry powder)* Rnase A Diluent 1.25ml/tul
5	Total Tissue RNA kit	T934	Magnetic Beads method	Pre-filled, 64T
6	Magnetic Base	T400		
7	Single Kits Docking	T500		
8	96 deep-well plate	Т300		
9	Mixing Sleeves	T301		



RELIABLE REJULT YOU CAN DEPEND ON

TianLong Nucleic Acid Extractor Libex is designed to ensure great process safety, high performance, and user convenience.

> A message will popup on the screen in case cabin door opened during experiments to reduce potential contamination.

> The precise mechanic control system helps to reduce intra-contamination.

> The disposable consumables: 96 deep well plate and mixing sleeve facilitate to reduce inter-contamination.

> An intelligent-design UV lamp decontaminates the inner surface of the system as needed.

PERFORMANCE

Genomic DNA was isolated from 10 human whole blood samples with the Tianlong Libex and real-time PCR were run by Tianlong Real-time PCR System TL988.



Sapmle	51	52	53	S 4	S5	56	57	58	59	S10
A260/A280	1.8	1.83	1.81	1.84	1.82	1.84	1.81	1.82	1.81	1.82
A260/A230	2.01	2.02	2.03	2.01	2.04	2.05	2.05	2.05	2.01	2.02
ng/µl	123.3	132.4	112.1	109.8	113.6	125.5	125.5	126.2	118.3	122.5



SPECIFICATIONS

Items	Parameter		
Processing Volume	30-1000 ul		
Capacity	1- 32 samples per run qork woth Tianlo	ong pre-filled extraction kits.	
Collection efficiency of the magnetic particles	≥95 %		
Heating Temperature	For cell lysis	Room temperature to 120 °C	
(Not suitable for 48samples per run)	For nucleic acid elution	Room temperature to 120 °C	
Processing-mode	Multi-mode, multi-speed available		
Reagents	Reagents suitable for Magnetic Par	ticle Method	
Operation Interface	peration Interface Chinese/English-Language Operating System, Touch-control Operation		
Storage Capacity	' 15 preinstalled protocols in main unit, unlimited in pad		

Items	Parameter
Protocol Management	Create, edit,
Pollution control	UV light
Computer Interface	USB
Network Communication	Ethernet (op
Dimensions (W × L × H)	440 mm × 43
Weight	31.5kg
Power Requirements	AC110±10 %/
Temperatures allowed during operation	10-40 °C
Relative humidity allowed during operation	<80 %

Figure3. Real-time PCR was done using 5 ng of extract the product (homo sapiens Beta-actin, ACTB) DNA in each of the 96 block positions. Low variation Cq values (Cq range = 0.12 and SD = 0.030) in each of the 96 positions demonstrated temperature homogeneity and equal treatment of all samples - independent of block position.

;, delete, protocol mode	
ptional)	
435 mm × 445 mm	
b/230 V ±10 %, 50 Hz/60 H ±1 Hz, 600 W	



A new platform of Necleic Acid Extraction Rotation Necleic Acid Extraction

GeneRotex Series

7 INCH LED SUPER SCALE COLOR TOUCH SCREEN, EASY TO OPERATE.

FLEXIBLE THROUGHPUT OPTIONS:

- > **96 THROUGHPUT** : 6*16 Extraction module with special 96 deep well plate and 6-well single strip designed for GeneRotex to ensure high throughput and reduce reagent lost.you can extract from 1 to 96 samples per run.
- > 48 THROUGHPUT: Big sample volume increases detection sensitivity; 1ml sample volume with independent designed consumable makes 10IU/ml infectious pathogen sensitivity detection easier than before.
- > 24 THROUGHPUT: Innovative 5ml large sample volume design can satisfy multi detection requirements such as prenatal DNA testing and drug use for tumors related detection.

COMPATIBLE WITH ALL THE CURRENTLY TIANLONG PRE-FILLED NUCLEIC ACID EXTRACTION KITS



> More than 90% nucleic acid recovery rate and higher than 98% magnetic beads recovery rate increas confidence in your experiment result, especially for low concentration sample detection. The detection rate of 10 IU/ml HBV and 30 IU/ml HCV are both more than 98%.



- > 1.High efficiency of purfication

SPECIFICATIONS

Models	GeneRotex 96	GeneRotex 48	GeneRotex 24			
Throughputs	1~96	1~48	1~24			
Reaction volume	30~1000µl	30~3000µl	30~15000µl			
Sample volume	200µl	1000µl	5000µl			
Compatible consumables	96 well DWP, customized 6-well single strip	Customized 48 well DWP	Customized large volume 6-well single strip			
Rotationalspeed	≤2000rpm	≤3000rpm	≤3000rpm			
Temperature range	Lysis he	Lysis heating : RT ~ 120°C Elution heating : RT ~ 120°C				
Mixing method		Rotary Mixing				
Operation languges		Chinese/English				
Operation mode	sev	en-inch full color LED touch screen oper	ation			
Protocol storage	With 20 sets model protocol internally, up to 10,000 protocols can be stored					
Protocol management	Flexible to creat, edit and delete protocols					
Magnetic beads recovery rate	≥98%					
Difference between wells	CV≤1% ;					
Operation noise	≤60 dB ;					
Contamination control	Nagative p	ressure HEPA exhaust filter module, buil	t-in UV lamp			
Interface		USB port				
Weight		43KG				
Size	490*520*480mm					
Power supply		AC110-240V, 50Hz/60Hz, 600W				
Temperature range		10-40°C				
Humidity range		≤80%				

INNOVATIVE **RMT**(ROTARY MIXING **TECHNOLOGY) OFFER YOU**

- > 2.50% aerosol reduces compare with traditional oscillation method
- > 3.Prevention of cross-contamination
- > 4.Running noise lower than 60 decible



Pana9600S Automated Nucleic Acid Extraction System



- > Sample tubes directly loading: 1~96samples ,->96-well PCR plate or 8-strip tubes
- > Sample transfer+Nucleic acid extraction+PCR reaction system build-up
- > Mature extraction mode -> Rotary Mixing Technology+ deep well plate cover
- > TAT: 96 samples, 60~90min/run(protocol-dependent)
- > pLLD: Liquid level detection, Tip situation detection (block, losen, drop)
- > cLLD: Liquid level detection, Automatic position calibration
- > Droplets catcher: Electrical droplets catcher
- > Machine vision: automatic consumable recognition
- Reagent chamber refrigeration, automatic or manual sample and reagent barcode scanner LIS connection..

SPECIFICATIONS

Throughput	1-96
Functions	Automated sample information identi
Reaction time	Accomplishes automated sampling, e 96 samples(including quality and star
Sample types	Plasma, serum, whole blood, swab wa
Sampling channels	1-4
Pipetting range	5-1000µl
Tip types	5-50µl, 50-1000µl
Pipetting performance	Less than 50µl: Acurracy: A≤3.0%, Rep
Liquid level detection	CapSense/Gas Pressure Sensor
Sample tubes	Compatible with all types of blood co
Extraction principle	Magnetic bead Extraction method (t
Extraction heating module	Elution heating at around 85°C
Required No. of Extraction wells	≤6;
Visual inspection technology	Monitoring consumable and reagent
PCR kit cabin	Avoid light design, power-on automa
PCR consumables	Compatible with 0.1µl, 0.2µl 8-strip tu
Contamination prevention design	(1) Independent closed extraction(2) Sampling device with air tightna(3) External droplet catching plate(4) Sterilizing device in experiment
Information technology	 (1) Scanning the bar codes of mult (2) Enable to connected with extern (3) Identifies bar code of extraction (4) Scanning bar codes of PCR kit c (5) With automatic transferring fundelivered to PCR sample setting
System software	Windows 7
Interface types	USB2.02Etherent; Support HL7 protoc
Operation noise	<65dB
Operation environment	Temp.2102-3522Humidity2≥70%
Instrument size	1350mm*820mm*850mm
Instrument weight	250Kg
Power supply	AC 220V±22V, 50/60Hz

ntification+Nucleic acid Extraction + PCR reaction system build-up

, extraction and PCR reaction system construction of andard material) within 60-90mins.

vash solution, etc.

epeatability: CV \leq 3.0% ; More than 50µl: Acurracy: A \leq 2.0%, Repeatability: CV \leq 1.0% ;

collection tube, 1.5ml and 2.0ml centrifuge tube, freezing tube and sampling cup.

transferring mixture of magnetic bead, nucleic acid and molecule)

t inventory status in real time.

atic refrigeration(4℃~8℃)

ube and 96 plate

n area, top directional exhaust creates an internal negative pressure system.

ness and anti-dropping design

nt cabin and extraction cabin

Itiple samples one by one while sample holder is loaded.

ernal scanner to scan single sample bar code.

on kit, automatic extraction protocol reading.

components separately, automatic amplification protocol recognizing.

Inction of sample information from extraction to PCR reaction. Sample bar code information 19 by One-Click, able to connect with LIS system.

ocol to connect with LIS







Real-time PCR System Gentier 48 Series

Your ideal choice for qPCR

Real-time PCR System Gentier 96 Series

Your ideal choice for qPCR



10.4 INCH TOUC	
96 WELL	
HEATING BLOCK	
	10 K H F2

Model	Sample	Channel	Gradient
Gentier48 E	48	4	Yes
Gentier48 S	48	4	No
Gentier48 R	48	2	Yes

Model	Sample	Channel	Gradient
Gentier96 E	96	6	Yes
Gentier96 S	96	6	No
Gentier96 R	96	4	Yes
Gentier96 C	96	4	No



REMC	VABLE	AIR
VENT	COVER	





- > Standard with 10.4' or 7" LCD touch screen, functions quickly accessible through simple, one-touch commands
- > Wizard operation to lock and unlock the transport locker.
- > Message alarm indicate the status of the machine
- > USB port update software and firmware
- > Unique power-off protection function can save all the setted configurations for sudden power outages, and allow the experiment continues when power supply is restored.







System can be installed in three distinct configurations, providing unmatched flexibility and convenience.

- > 1. Co-located configuration (PC control)
- > 2. Standalone (PC-free) configuration (Data can be export by USB and analysis on PC)
- desk,one PC can max control 10 instuments)

> 3. Networked configuration (PC software automatically detect all systems in LAN and allow to remote monitoring one of experimental progress and downloading of the completed run file to the PC at your



FAST AND UNIFORM HEATING SYSTEM

- > Concealed lid with constant temperature and isopiestic pressure
- > Electrical controlled elevating & automatic locked platform
- > Thermo block is based on improved heat pipe technology, leading to extraordinary lintra-well temperature homogeneity and maximized inter-well, inter-cycle reproducibility.
- > Highly efficient PID&DSP control algorithm ensures faster respond and stronger interference resistance, fast and uniform heating and heat sinking



Max heating rate: 8.0°C/s Avg heating rate: 6.0°C/s Max coolting rate: 5.5°C/s Avg cooling rate: 4.0°C/s Temperature accuracy: ±0.1℃ **Temperature uniformity: ±0.1°**℃



Max heating rate: 6.1°C/s
Avg heating rate: 4.5°C/s
Max coolting rate: 5.0°C/s
Avg cooling rate: 2.8°C/s
Temperature accuracy: ±0.1°C
Temperature uniformity: ±0.1°C
Support High Resolution Mo

lelting (HRM) function, Min temperature resolution 0.06°C



- be from 10¹ to 10¹⁰ copies
- edge effects, no need for ROX calibration
- time, free maintenance optical system through the entire life
- minimize the fluorescence channel crosstalk.



LED-excitation and PD-detection 2s lateral optical scanning

CH1	CH2	СНЗ	CH4	CH5
FAM SYBR Green I SYTO 9 EvaGreen LC Green	HEX VIC TET JOE	Texas Red ROX	Cy5	Alexa Fluor 680

Gentier 96E/96S(CH1-CH6)

Currently channls are same with Bio-rad CFX96,Qiagen RotorGene Q Can change FRET to TAMRA/CY3 in future, it can be the seme with all ABI qPCR, Agilent Mx3005P

Gentier 96R/96C(CH1-CH4)

Channls are same with Roche LightCycler 96, Agilent Mx3000P,SLAN 96S/P,TL988 of Tianlong

> High-sensitivity and wide dynamic range of fluorescence detection system, sample dynamic range could

> Fast and precise mechanical scanning structure ensures the illumination uniformity of 96 wells, Eliminate

> Fluorescence excitation by a high-intensity and long-life LED, Bulb Luminance will not attenuation over

> Professional designed fluorescence filters realize the highly fluorescence transmittance and meanwhile

CH1	CH2	СНЗ	CH4
FAM SYBR Green I SYTO 9 EvaGreen LC Green	HEX VIC TET JOE	Texas Red ROX	Cy5

Gentier 48E/48S

1 465 /510 (FAM,SYBR Green I,SYTO9,EvaGreen,LC Green)

2 527/ 563 (HEX, VIC, TET, JOE)

3 580 /616 (ROX, Texas Red)

4 632/664(Cy5)

Channls are same with Roche LightCycler 96, Agilent Mx3000P

Gentier 48R

1 465 /510 (FAM, SYBR Green I, SYTO9, EvaGreen, LC Green) 2 527/ 563 (HEX, VIC, TET, JOE)





LED-excitation and PD-detection

7s top optical scanning for 96 wells and 6channels





- > Friendly interface and clearly functional modules design, first-time users can easily start a new experiment.
- > All experiment data and setting options are shown conveniently on a single interface.







INSTRUMENT MANAGEMENT & DATA TRANSMISSION

- > Instrument Management allow you managing all the Gentiers in the WLAN
- > More than thousands results can be stored in device
- > USB or WLAN easily transfer experimments data anywhere you needed

EXPERIMENTS MANAGEMENT

Instrument Management

- > Multi-options to start an experiment: New, New for Existed, Open data file, Double click data file
- > User can define the experiments name for documentation
- > User can define the data storage directory themself
- > Pre-installed templates can help user more easier to edit the protocals.



RUN MONITORING

- > All running infoirmation in one screen, intuitivly and simply
- info...
- automaticly.
- > After experiment, data download to PC automaticly.



DATA ANALYSIS

- > Optional baseline setting: Automatic or Manual
- > Multi-option analytical method for different requirements: Automatic or Manual threshold method, normalization method
- > Reference Dye analysis



> User can define each model to see what they like on the screen:Real-time Flurescence ,Heat map, Run info,Sample Setting, Sample > Run the experiment first by devie, later edit the sample setting in PC, when PC conencted to machine, setting upload to machine





DATA ANALYSIS-MOST COMPREHENSIVE DATA ANALYSIS

> One data can use different analysis method







> 300IU HBV DNA absolute quantitative full plate test(with standard curves). FAM for HBV DNA HEX for internal control



DATA ANALYSIS-OTHERS

- ∧ Statistics analysis: Replicate,Gene types
- ∧ Heating map options: Ct, Concentration, Flurescence
- ∧ LIS connectivity, can export csv,Excel and Txt format
- Λ Row data and results can export in Excel format

REPORT

 Unique designed universal report(Research and Clinical) can be customized according to the requirements, report review and print function help clinical documentation as needed.

HBV DNA ABSOLUTE QUANTITATIVE UNIFORMITY



GRADIENT DILUTED SAMPLES UNIFORMITY



Gradient diluted sample amplification curves. Can set different colors for each sample.

CA16/EV71/EU UNIFORMITY



Multiplex PCR uniformity with CA16/EV71/EU assay. Left and right half are low/high concentration duplicate samples. FAM for CA16,Cy5 for EU.

MTHFR C677T SNP GENOTYPING



MTHFR C677T SNP genotype test with genotyping analysis function.

SYBR GREEN I MELTING CURVE UNIFORMITY



Temperature uniformity of melting curve with SYBR Green I dye.

MULTIPLEX PCR GRADIENT SAMPLES UNIFORMITY



4 colors multiplex PCR gradient sample test HEX channel is used for internal control, isn't shown on this page. A good performance even with multiplex PCR.

HPV 16+2 UNIFORMITY



HPV high risk genotyping assay

Multiplex PCR uniformity performance with HPV 16+2 high risk types assay. Left and right half are low/high concentration duplicate samples. HEX for HPV 16, ROX for HPV 18, FAM for the rest of 16 high risk types.

Cy5 channel is for internal control, not shown on this page.

MTRR A66G ,MTHFR A1298C MELTING CURVES SNP ANALYSIS



Multiplex PCR melting curves for SNP analysis.

FAM channel is for MTRR A66G \cdot ROX channel is for MTHFR A1298C. The left melting peak is the wild type, the right melting peak is the mutation. And twin-peak means the sample is heterozygote.

MTHFR C677T HRM ANALYSIS



High Resolution Melting (HRM) analysis for MTHFR C667T SNP with saturation dye. Group 1 is the wild type,Group 2 is the mutation, Group 3 is the heterozygote.

SPECIFICATIONS

Inscient/PartieSATESATECalcader AngerSame		Gentier 48E	Gentier 48S	Gentier 48R	Gentier 96E	Gentier 96S		
NationalImageImageImageImageImageImageCanadaImageImageImageImageImageImageCanadaImageImageImageImageImageImageCanadaImageImageImageImageImageImageCanadaImageImageImageImageImageImageCanadaImageImageImageImageImageImageCanadaImageImageImageImageImageImageImageCanadaImage <td>Thermal Block</td> <td></td> <td>1</td> <td></td> <td></td> <td>I</td> <td></td>	Thermal Block		1			I		
ControlSchelling yand 2-3 Mit y	Sample capacity(wells)	48 96				96		
InvariantInfoInfoInteMarkayon0II <td>Reaction Volume</td> <td colspan="2">5-100 µL</td> <td></td> <td>0-10</td> <td></td>	Reaction Volume	5-100 µL			0-10			
neme Varial	Consumables	0.2ml 8-str	rip tubes ,0.2ml PCR single tube(Optical flat cap	,clear tube)	0.2ml 96-well Plates	(unskirt) ; 0.2ml 8-strip tubes,0.2m	I PCR si	
<table-container>AnamogenImageImageImageImageImageImageImageAnamogenImageImageImageImageImageAnamogenImageImageImageImageAnam</table-container>	Temperature range		0°C-100°C			0°C-	-100°C	
Ansame set A Second Set A second Set A second Set Ansame set A Second Set A second Set A second Set Ansame set A second Set	Heating/cooling method							
<table-container>search of the search of the</table-container>	Max heating rate		8.0°C/sec			6.1°	C/sec	
Sensinglering 1975/million 1975/million 1975/million Sensinglering 1975/million 1975/million 1975/million Sensinglering 1976/million 1976/million 1970/million Sensinglering 1976/million 1970/million 1970/million Sensinglering 1970/million 1970/million 1970/million	Average heating rate		6.0°C/sec			4.5%	C/sec	
Tays Area Area191%191%191%Tays Area Area191%191%191%Strand Area Area191%191%191%Strand Area Area191%191%191%Strand Area Area191%191%191%Strand Area Area191%191%191%Strand Area191% <td< td=""><td>Max cooling rate</td><td></td><td>5.5°C/sec</td><td></td><td></td><td>5.0°</td><td>C/sec</td></td<>	Max cooling rate		5.5°C/sec			5.0°	C/sec	
Taylor (1997)1431219131913Sade (1997)1948 (1997)1948 (1997)1948 (1997)1914 (1997)Sade (1997)Sade (1997)Sade (1997)Sade (1997)1914 (1997)1914 (1997)Sade (1997) <td>Average cooling rate</td> <td></td> <td>4.0°C/sec</td> <td></td> <td></td> <td>2.8%</td> <td>C/sec</td>	Average cooling rate		4.0°C/sec			2.8%	C/sec	
<table-container>Sack styleNA1-MAR1-MARNASack styleSackTage120 mm120 mm1</table-container>	Temperature accuracy		±0.1°C			±0.1°C		
CalabiResYeeYeeYeeStabilized Stabilized	Temperature uniformity		±0.1°C			±0.	1.1°C	
Appendix analysis Server (King PCR) (ex) (PCR) Long PCR) (ex) (PCR) Long PCR) (ex) (PCR) Long PCR) Long PCR) <thlong pcr)<="" th=""> Long PCR) Lon</thlong>	Gradient Range	1°C-40°C	N/A	1°C-40°C	1°C-40°C	N/A		
bet/d American and a state of the state of	Gradient block	8 row		8 row	12 row		<u> </u>	
Impact and part of the Second and Second	Special temperature protocol	Gradient PCR,Long PCR,Touch Down PCR	Long PCR, Touch Down PCR	Gradient PCR,Long PCR,Touch Down PCR	Gradient PCR,Long PCR,Touch Down PCR	Long PCR, Touch Down PCR	Gradier	
Option/ Endation/show ALSO ALSO Details for some Details for some	Heat Lid		-				_	
Opticality Opticality Opticality Opticality Opticality Constant Storm 0.000 mm 0.000 mm <td>Temperature range</td> <td></td> <td>Room Temperature-110°C</td> <td></td> <td></td> <td>Room Temp</td> <td>erature-</td>	Temperature range		Room Temperature-110°C			Room Temp	erature-	
Data iso Protection Protection Data iso Control on the Cont	Optical System							
Detection interfact Matching and scars from interal Matching and scars from interal Matching and scars from interal Detection interfact 2 accords of the starting in detect scarsing interal interance of the starting	Excitation Source	4LE	EDs	2LEDs	٥L	EDs		
Decktor Mellor Calitation and sam from testing of live same frame on listigned live. Calitation and sam frame on listigned live. Decktor Meridi 4.1 and sam frame on listigned live. Calitation and sam frame on listigned live. Calitation and sam frame on listigned live. Decktor Meridi 1.555 STR (FFX)/CERC Calitation and sam frame on listigned live. 1.555 STR (FFX)/CERC Calitation and sam frame on listigned live. <	Detector		Photodiode			Photo	odiode	
Detector (vm 2 accordutor all wells for all durates 7 accordutor for all wells for all durates Ring wells for all durates 2 507 / 501 / 1000 / 1000 / 50								
Decent (mm 2 accords for 48 acth for all channels 7 accords for 48 acth Bring of accords (mm) 2 accords for 48 acth for all channels 1 add 51 aft (mm) (Mm) (mm) (mm) (mm) (mm) (mm) (mm)		4 с		fect.				
Bergen Scalability Str.Str.Str.Str.Str.Str.Str.Str.Str.Str.	Detection time							
Mulpilology Up to 4 targets Up to 6 targets Facescence Lineary C. 100 YPC C. 200 YPC Facescence Lineary C. 200 YPC C. 200 YPC Sample Apparent Range C. 200 YPC C. 200 YPC Sample Apparent Range C. 200 YPC C. 200 YPC Sample Apparent Range C. 200 YPC C. 200 YPC Sample Apparent Range C. 200 YPC C. 200 YPC Sample Apparent Range C. 200 YPC Mater Care analysis, Hap Ranokin Ambing C. 200 YPC Sample Apparent Range C. 200 YPC Mater Care analysis, Hap Ranokin Ambing C. 200 YPC Sample Apparent Range C. 200 YPC Mater Care analysis, Hap Ranokin Ambing C. 200 YPC Sample Apparent Range C. 200 YPC Mater Care analysis, Hap Ranokin Ambing C. 200 YPC Sample Apparent Range C. 200 YPC YPC Prest Range Range C. 200 YPC Sample Sample Apparent Range C. 200 YPC <td></td> <td>2 527/ 563 (HEX,VIC,TET,JOE) 3 580 /616 (ROX,Texas Red)</td> <td></td> <td>EvaGreen,LC Green)</td> <td>2.527/ 563 (HEX,VIC,TET,JOE)</td> <td colspan="2">1.465 /510 (FAM,SYBR Green I,SYTO9,EvaGreen,LC Green) 2.527/ 563 (HEX,VIC,TET,JOE) 3.580 /616 (ROX,Texas Red)</td>		2 527/ 563 (HEX,VIC,TET,JOE) 3 580 /616 (ROX,Texas Red)		EvaGreen,LC Green)	2.527/ 563 (HEX,VIC,TET,JOE)	1.465 /510 (FAM,SYBR Green I,SYTO9,EvaGreen,LC Green) 2.527/ 563 (HEX,VIC,TET,JOE) 3.580 /616 (ROX,Texas Red)		
Provescence linearity rad.979 Ruorescence Dynamic Range Adjustable Reformance Adjustable Sample Linearity /r/20.979 Sample Linearity /r/20.979 Sample System Range (r/20.978) Sample System Range (r/20.978) Data Analysis Index System Range 110° copies Data Analysis Index System Range (r/20.978) Constant Constant Range (r/20.978) Constant Range <td>Probe</td> <td colspan="2"></td> <td>Taqman Probe,Molecular beaco</td> <td>ons probe,Scorpion probe ,FRET</td> <td></td>	Probe			Taqman Probe,Molecular beaco	ons probe,Scorpion probe ,FRET			
Human Range Adjustable Adjustable Performance	Multiplexing	Up to 4	targets	Up to 2 targets	Up to 6	targets		
Performance Performance Sample Invariation (//SQ 09) (//SQ 09) Sample Invariation (//SQ 00) (//SQ 09) Sample Invariation (//SQ 00) (//SQ 09) Sample Invariation (//SQ 00) (//SQ 00) Sample Invariation (//SQ 00) (//SQ 00) <	Fluorescence Linearity		r≥0.990	•		r≥0.990		
Sample Unsarity /r/20.999 /r/20.999 Sample Unsarity Ctvalue CV:00.5% Ctvalue CV:00.5% Sample Dynamic Range 1.10° copies 1.10° copies Data Analysis modes Coulitative analysis.Aboute quantification, Relative quantification,	Fluorescence Dynamic Range		Adjustable			Adju	ustable	
Sample repeatability Ci value CVd.S% Ci value CVd.S% Sample Opnamic Range 1.10° copies 1.10° copies Software Functions 0ualitative analysis, Absolute quantification, Relative quantificati quantification quantification quantification quantifi	Performance							
Symple Dynamic Range 1.10° copies 1.10° copies Software Functions Constitutions Outsitutions Outsituti	Sample Linearity		/r/≥0.999			/r/≥0.999		
Software Functions Outlitative analysis,Absolute quantification, Relative quantinterve quantification, Relative quantine quantifica	Sample repeatability		Ct value CV≤0.5%		Ct value C			
Data Analysis modes Qualitative analysis, Absolute quantification, Relative quant	Sample Dynamic Range		1-10 ¹⁰ copies		1-10 ¹⁰ сорі			
Data Analysis modes Melic curve analysis, High Resolution Melting Melic Curve analysis, High Resolution Melicing Melic Curve analysis, High Resolutin Melicing Melic Curve analysis, High	Software Functions							
Charlen modes 2.PC direct control 3.WLAN control/Cone PC can control mas 10 units, and device an be controled by any PC in the WLAN) 2.PC direct control 3.WLAN control/Cone PC can control mas 10 units, and device an be controled by any PC in the WLAN) 3.WLAN control/Cone PC can control mas 10 units, and device an be controled by any PC in the WLAN) Data Scorage Upload and download through USB disk, 1000 results can be stored in machine Upload and download through USB disk, 1000 results can be stored in machine Power failure protection Automaticly start running experiments after power supply, no need wait PC software Automaticly start running experiments after Catomize Report Image: Control A and Dinistrator can set functions limits for users Administrator can set functions limits for users Fault Maaagement Gotter CSV,Exce/LXT format data output,open port for LUS connection CSV,Exce/LXT format data output,open port for LUS connection PC operating system Gotter CSV,Exce/LXT format data output,open port for LUS connection CSV,Exce/LXT format data output,open port for LUS connection PC operating system Gotter CSV,Exce/LXT format data output, SOTT format d	Data Analysis modes					Qualitative analysis,Absolute quantification, Relative qu Melt curve analysis, Hig		
Power failure protection Automaticly start running experiments after power supply, no need wait PC software Automaticly start running experiments after Customize Report Templetes reserved, report can customized Templetes reserved, report can customized Administration Management Administrator can set functions limits for users Administrator can set functions limits for users Fault Management GSV/Excel/TXT format data output, open port for LUS connection CSV/Excel/TXT format data output, open port for LUS connection VLS connection CSV/Excel/TXT format data output, open port for LUS connection CSV/Excel/TXT format data output, open port for LUS connection PC operating system Vin 7, Win 10 Vin 7, Win 10 Communication Port 1 ethernet and 2 USB 1 ethernet and 2 Footprint(WXDXH) CSO/Excel/TXT format 400 mm X 260mm 3355mm X 480mm Weight 11kg 30kg Power usage AC 100 to 125 V/ 200 to 240 V(50/60 Hz), AC 100 to 125 V/ 200 to 240 V(50/60 Hz), power consumption 600VA 000VA 900V	Control modes	2.PC direct control	an control max 10 units, and device can be contr	roled by any PC in the WLAN)	2. PC direct co			
Customize ReportTempletes reserved, report can customizedTempletes reserved, reAdministration ManagementAdministrator can set functions limits for usersAdministrator can set functions limits for usersFault ManagementFault report and analysis, solution instructionFault report and analysisLIS connectionCSV_Excel,TXT format data output, open port for LIS connectionCSV_Excel,TXT format data output, open port for LIS connectionOthersPC operating systemMin 7, Win 10Communication Port1 ethernet and 2 USB1 ethernet and 2 USBFootprint(WxDxH)260mm X 400mm X 260mm355mm X 480mmWeight11kg30kgPower usageAC 100 to 125 V/ 200 to 240 V(S0/60 Hz).AC 100 to 125 V/ 200 to 240 V(S0/60 Hz).power consumption600VA900V	Data Storage					Upload and download through USB disk,10		
Customize ReportTempletes reserved, report can customizedTempletes reserved, report can customizedAdministration ManagementAdministrator can set functions limits for usersAdministrator can set functions limits for usersFault ManagementFault report and analysis, solution instructionFault report and analysisLIS connectionCSVExcel,TXT format data output, pep np ot for LIS connectionCSVExcel,TXT format data output, pep np ot for LIS connectionOthersPC operating systemMin 7, Win 10Communication PortFootprint(WXxDrH)Veight11kgPower usagePower usagepower consumption600VA	-	Automaticly sta	rt running experiments after power supply, no n	eed wait PC software	Au			
Fault Management Fault report and analysis, solution instruction Fault report and analysis LIS connection CSVE.xcel,TXT format data output, open port for LIS connection CSVE.xcel,TXT format data output, open port for LIS connection Others Communication Port Min 7, Win 10 Win 7, Win 10 Communication Port 1 ethernet and 2 USB 1 ethernet and 2 USB 1 ethernet and 2 USB Footprint(WxDxH) 2600mm X 400mm X 260mm 355mm X 480mm 355mm X 480mm Weight 11kg 30kg 355mm X 400mm X 260 Min 250 V/200 to 240 V (50/60 Hz). AC 100 to 125 V/200 to 240 V (50/60 Hz). power consumption 600VA 600VA 90V/400 Min 200 Min 20	Customize Report		Templetes reserved ,report can customized	Ŀ				
Fault ManagementFault report and analysis, solution instructionFault report and analysisLIS connectionCSV_Excel_TXT format data output, open port for LIS connectionCSV_Excel_TXT format data output, open port for LIS connectionOthersPC operating systemCommunication PortFootprint(WxDxH)VeightPower usagePower consumption600VA900VA				Administrator can set				
LIS contention CSV,Excel,TXT format data output,open port for LIS connection CSV,Excel,TXT format data output Others					Fault report and analysi			
PC operating systemWin 7, Win 10Win 7, Win 7, Win 10Communication Port1 ethernet and 2 USB1 ethernet and 2Footprint(WxDxH)6000m X 400mm X 260mm355mm X 480mmWeight11kg30kgPower usageAC 100 to 125 V / 200 to 240 V (50/60 Hz).AC 100 to 125 V / 200 to 240 V (50/60 Hz).power consumption600VA900VA	LIS connection			connection	CSV,Excel,TXT format		output,o	
Communication Port1 ethernet and 2 USB1 ethernet andFootprint(WxDxH)260mm X 400mm X 260mm355mm X 480mmWeight6000000000000000000000000000000000000								
Communication Port1 ethernet and 2 USB1 ethernet andFootprint(WxDxH)260mm X 400mm X 260mm355mm X 480mmWeight11kg30kgPower usageAC 100 to 125 V / 200 to 240 V (50/60 Hz).AC 100 to 125 V / 200 to 240 V (50/60 Hz).power consumption600VA900VA	PC operating system	Win 7, Win 10		Win	7, Win 1			
Footprint(WxDxH)260mm X 400mm X 260mm355mm X 480mmWeight11kg30kgPower usageAC 100 to 125 V / 200 to 240 V (50/60 Hz).AC 100 to 125 V / 200 to 240 V (50/60 Hz).power consumption600VA900V/				1 ethernet and				
Weight 11kg Power usage AC 100 to 125 V / 200 to 240 V (50/60 Hz). power consumption 600VA	Footprint(WxDxH)							
Power usage AC 100 to 125 V/200 to 240 V (50/60 Hz). AC 100 to 125 V/200 to 240 V (50/60 Hz). power consumption 600VA 900V							30kg	
power consumption 600VA 900V/						AC 100 to 125 V / 200 to 2		
	-						200VA	
Temperature. To C 50 C Hamilary. 20% 05%	Work environment		Temperature:10°C~30°C Humidity:20%~859	6		Temperature:10°C~3	30°C Hu	

Gentier 96R	Gentier 96C		
single tube(Optical flat cap,clea	r,frosted,white tube)		
	· · · ·		
1°C-40°C	N/A		
12 row			
ient PCR,Long PCR,Touch Down PCR	Long PCR,Touch Down PCR		
e-110°C			
4LE	Ds		
e			
an at top			
e time, no edge effect.			
or all channels			
465 /510 (FAM,SYBR Green I,SY	TO9.EvaGreen.LC Green)		
527/ 563 (HEX,VIC,TET,JOE) 632/ 664(Cy5)			
Taqman Probe,Molecular be	acons probe,Scorpion probe		
Up to 4 targets			
9			
).5%			
es			
antification,Genotyping analysis,Endpoint analysis, h Resolution Melting			
device can be controled by any	PC in the WLAN)		
000 results can be stored in machine			
power supply, no need wait PC software			
ort can customized			
tions limits for users			
solution instruction			
open port for LIS connection			
10			
3 USB			
X 485mm			
240 V (50/60 Hz).			
umidity:20%~85%			

PCR Kits list from Tianlong

	Product name	Technology	Spec	Cat.No.
Bloodborne	Hepatitis C Virus(HCV) PCR Kit	Real-time PCR	32	P100
Infections	Hepatitis B Virus(HBV) PCR Kit	Real-time PCR	32	P101
	Hepatitis B Virus Genotyping PCR Kit	Real-time PCR	32	P119
	Chlamydia Trachomatis(CT) PCR kit	Real-time PCR	32	P103
Sexually	Neisseria Gonorrhoeae(NG) PCR kit	Real-time PCR	32	P104
Transmitted	Ureaplasma Urealyticum(UU) PCR kit	Real-time PCR	32	P105
Infections	Human Papilloma Virus(HPV) PCR kit	Real-time PCR	32	P120
	CT/NG/UU/UP Multiplex PCR Kit	Real-time PCR	50	P132
	Herpes Simplex Virus 2(HSV-2) PCR Kit	Real-time PCR	32	P106
Transplantation Infections	Human CytomegaloVirus(HCMV) PCR Kit	Real-time PCR	32	P107
infections	Measles Virus /Rubella Virus(MV/RV) PCR Kit	Real-time PCR	32	P108
	Mycoplasma pneumonia (MP) PCR Kit	Real-time PCR	32	P109
	Ebola virus(Zaire) PCR Kit	Real-time PCR	32	P114
	Mycobacterium tuberculosis PCR Kit	Real-time PCR	32	P121
	Human Influenza Virus A/B PCR Kit	Real-time PCR	32	P122
	Group B Streptococcus(GBS) PCR Kit	Real-time PCR	32	P123
	Respiratory syncytial virus A/B PCR Kit	Real-time PCR	25	P028
Respiratory Infections	Human Influenza Virus B genotyping(Yamagata&Victoria) PCR Kit	Real-time PCR	25	P028
intections			25	P073 P259
	Human Influenza Virus A/B & respiratory syncytial virus Multiplex PCR Kit	Real-time PCR		
	Human Influenza Virus B (Yamagata&Victoria) and A (H1&H3) Multiplex PCR Kit	Real-time PCR	25	P255
	Respiratory 12 types virus Multiplex PCR Kit	Real-time PCR	10	P260
	Avian Influenza Virus H7/HPAI-H7/N9 Multiplex PCR Kit	Real-time PCR	25	P262
	Respiratory 15 types virus Multiplex PCR Kit	Real-time PCR	10	P232
	MERS-CoV PCR Kit	Real-time PCR	25	P071
	Coxsackie A6/A10 virus PCR Kit	Real-time PCR	32	P115
	Enterovirus 71/Coxsackievirus A16/enterovirus PCR Kit	Real-time PCR	32	P116
Gastrointestinal	Enterovirus PCR Kit	Real-time PCR	32	P117
Infections	Norovirus GI/GII PCR Kit	Real-time PCR	32	P134
	Vibrio cholerae O139/O1 PCR Kit	Real-time PCR	25	P049
	Salmonella enterica/Shigella Multiplex PCR Kit	Real-time PCR	25	P085
	Sapovirus/Adenovirus/Astrovirus Multiplex PCR Kit	Real-time PCR	25	P252
	HLA-B27gene detection Kit	Real-time PCR	32	P118
Heredity	SMN1/SMN2 gene detection Kit	PCR HRM	32	P124
	HLA-B*1502 gene detection Kit	Real-time PCR	25	P135
	Epstein-Barr Virus(EBV) PCR Kit	Real-time PCR	32	P110
	Human B-raf gene V600E mutation detection Kit	ARMS Proble	20	P111
Oncology	Human k-ras mutation detection Kit	PCR Melting	20	P112
Unconogy	Human Her-2 gene detection Kit	PCR HRM	20	P125
	Human Septin9 gene methylation detection Kit	Real-time PCR	32	P126
	Human EGFR 29 types mutations detection Kit	PCR Melting	12	P138
	Human HLA-B*5801 gene detection Kit	Real-time PCR	25	P127
	Human CYP2C19 Genotyping detection Kit	PCR Melting	24	P128
	CYP2D6*10\CYP2C9*3\ADRB1(1165G>C)\AGTR1(1166A>C)\ACE(I/D)gene detection		24	P129
Pharma	Human MTHFR PCR Kit	PCR Melting	24	P130
cogenetics	Human CYP2C9\CYP4F2\VKORC1 gene detection Kit	PCR Melting	25	P131
	Human ALDH gene detection Kit	PCR Melting	25	P133
	Human MTHF\MTRR gene detection Kit	Real-time PCR	20	P139
	Hantavirus/Seoul virus PCR Kit	Real-time PCR	25	P068
	ZiKa virus PCR Kit	Real-time PCR	25 25	P074
			15	P075
opical Infections & Zoonoses	Yellow fever virus PCR Kit Dengue virus/ZiKa virus/Chikungunya virus Multiplex PCR Kit	Real-time PCR Real-time PCR	25	P251

Molecular Diagnostic POCT Platform MiPana Series



- > Full-automatic: sample in-result out;
- > Easy operation: add samples, scan barcodes→operate by one key→issue a test report:
- intelligent test result interpretation;
- > Small size: volume 320mm(L)×160mm (W) ×160mm (H)-single module;
- > Point-of-care test, multi-target: 15 targets can be tested within 30~50min (relying on Panel);
- > Fexible flux: centralized control, multi-module stacking, with any samples tested in no time once supplied;
- allocation;
- > Network connection: equipped with Wifi and WLAN interfaces, able to deliver test data automatically;
- > Pollution-free: all-closed operation, with no requirements for operators or the environment.

TL POCT TEST KIT FOR MULTIPLE PATHOGENS IN RESPIRATORY TRACT

15 different pathogens are tested concurrently (virus+ bacteria+ mycoplasma+ chlamydia); test kit is stored and transported at normal temperature

Classification	15 con
Virus	Influenza A virus (FluA); influenza E metapneumovirus (MPV); adenovi (PIV1); parainfluenza virus 2 (PIV2);
Mycoplasma Chlamydia Bacteria	Mycoplasma pneumoniae (MP); chla bordetella pertussis (BP); legionella diplococcus pneumoniae (SP); haer

> Full-integrative: integrated sample preprocessing, nucleic acid extraction, PCR amplification, multi-target nucleic acid test,

> Barcode scanning: there is a QR code on the reaction disc, which can be scanned automatically to complete all information

mmon pathogens in respiratory tract

B virus (FluB); respiratory syncytial virus (RSVA &B); human virus (AdV); human rhinovirus (hRV); parainfluenza virus 1 parainfluenza virus 3 (PIV3)

lamydia pneumoniae (CP);

la pneumophila (LP) ;

emophilus influenzae (HIB)

PCR Thermal Cycler Genesy

HIGH PERFORMANCE INSTRUMENT THAT FITS THE REQUIREMENTS OF TODAY'S SCIENTIST

Genesy--The new PCR thermal cycler from Tianlong, is quite easy to operate with a 7' color LCD touch screen. By taking advantages of its excellent thermo-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 alsoremarkably simple and intuitive. Thanks to all these advantages, Genesy is your ideal equipment for PCR.

REPRODUCIBILITY -

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



FLEXIBILITY

- > 1000 experiment protocals can be saved in the machine
- > Protocols can be easily shared between different Genesys via USB flash disk, personal protocols can also be saved in your USB flash disk to quickly setup your own experiment on any Genesys.



Intuitivly software design, specialized user training is not required, friendly interface make it simple even for first time users.

Compact design with very small footprint, very easy to be easily moved

7" LCD touch screen, functions quickly accessible through simple, one-touch commands.

TIANLONG

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

CONSUMABLES





Items Thermo block Sample Capacity Temperature con





SPECIFICATIONS

Items	Parameter
Thermo block	Aluminum
Sample Capacity	96 × 0.2 ml, 0.2 ml single tube, 8-strip tubes, 0.2 ml 96-well plate (skirted, semi-skirted, unskirted)
Temperature control range of the block	99.9 °C
Temperature control mode	Tube mode & Block mode
Heating technology of the block	Peltier
Gradient block	12 row (horizontal)
Gradient range	0.2~20 °C
Gradient temperature range	30~99 °C
Lid temperature range	40~110 °C
Block homogeneity: 20 °C–72 °C 95 °C	±0.2 °C ±0.3 °C
Block temperature accuracy	±0.1 °C
Heating rate*	MAX 4.5 °C/s
Cooling rate*	MAX 4.5 °C/s
Interfaces	USB, Ethernet
Dimensions (W × D × H)	260 mm × 400 mm × 260 mm
Weight	12 Kg
Power supply	AC 100~240 V, 50~60 Hz
Max. Power consumption	600 VA