Bring Technology to Life

# **Panall 8000** All-in-one Molecular Diagnosis System

Embrace flexibility with **open system** to create broad molecular test menu





# Bring Technology to Life



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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.

Panall 8000 is designed as an open platform that is compatible with molecular diagnostic tests from different manufacturers. Tianlong intends to collaborate with best-in-class IVD assay developers to bring new tests to the Panall 8000 All-in-one Molecular Diagnosis System for a broad range of disease categories.

# COMPATIBLE CONSUMABLES





detection kit \*Open system for PCR protocol and compatible with PCR reagents from different manufactures



Sample in -result out system

# **TEST PORTFOLIO**

Tianlong offers an extensive menu of tests on the system covering respiratory infections, sexually transmitted infections, and gastrointestinal infections. Tianlong also offers customized reagents for the Panall 8000 All-in-one Molecular Diagnosis System that enables labs to program user-defined PCR analysis protocols and streamline their PCR tests.



# **OPEN SYSTEM**

Tianlong Panall 8000 is an open system that enables laboratories to program user-defined PCR analysis protocols. Laboratories can use user-defined protocols in addition to those developed by Tianlong. The simple and efficient design of the Tianlong Panall 8000 allows you to test a wide range of sample types and meet emerging diagnostic requirements through customized reagents. Tianlong intends to work with our partners to bring more new tests to the Panall 8000 for detection of a broad range of disease categories.





# **APPLICATION AREA**





### Customize collaboration mode for a more diversified menu

can customize nucleic acid extraction reagents to match your PCR reagents for more business possibilities.

An open system with a diversified testing menu can meet your emerging diagnostic requirements and apply in more scenarios. Tianlong Panall 8000 compatible with your reagents can optimize the detection





# ATTACHED FILE

## SOP for setting your PCR protocol in panall 8000 open system

## 1 Start setting

Login in superadmin mode. Choose in turn Setting>Item Management>Item Edit



## **3** Sample loading and PCR system setup

Choose sample loading, mixing and dispensing mode and set parameters



## **5** Set PCR protocol

Choose the amplification method and set the amplification cycles and steps



## 2 Set new experiment

Edit the new experiment name and ID



## **4** Choose extraction protocol

Choose the extraction reagent protocol according to your detection needs



## **F** Set target gene and internal control

Result analysis by independent gene interpretation or Joint gene interpretation



\*After PCR protocol set up, user can save the protocol as an template, and start your new experiment quickly with pre-configured templates.

# **PARAMETERS**

20µL ≤ V<4 40µL ≤ V<1 V ≥100µ
Sa Panall 8000 Reagent inforr the kit info
Direct
Internet
750

Panall 8000

1~8 samples at the same time

20µL ~250µL

1~2 hours, relying on the reagent

Channel 1: FAM, SYBR Green I, etc. Channel 2: VIC, HEX, TET, JOE, etc. Channel 3: ROX, Texas Red, etc. Channel 4: Cy5, etc.

40µL: accuracy: A≤5.0%, repeatability: CV≤3.0% 100µL: accuracy: A≤3.0%, repeatability: CV≤1.5% µL: accuracy: A≤1.0%, repeatability: CV≤1.0%

Average heating rate:  $\geq 1.5 ^{\circ} C/s$ ;

≤ 1.0 °C

Average heating rate:  $\geq 4.5 \degree C/s$ Maximum heating rate:  $\geq 6.1\degree C/s$ 

Average cooling rate: ≥ 3.5°C/s; Maximum cooling rate: ≥ 5.0°C/s.

≤ 0.1°C

Linear correlation: /r/ ≥ 0.998 Repeatability: CV≤ 1.5%

ample information: with scanner inside, 0 can scan and record the sample information; mation: visual system can automatically identify ormation and run the corresponding program

tional exhaust & negative pressure system; HEPA filtration; UV disinfection; ortest fixed path for sample operation

1000 experiment files can be stored

Chinese and English

AC 100~240V, 50/60Hz; 1200VA

t Port: TCP/IP protocol, Ethernet connection USB Port: USB 2.0

 $Omm(L) \times 350mm(W) \times 600mm(H)$ 

80Kg