

*Bring Technology to Life*



# ***Panall 8000***

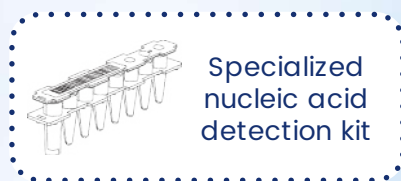
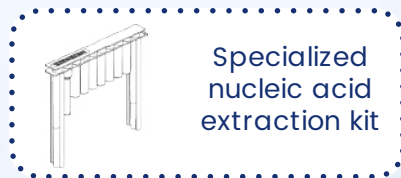
## ***All-in-one Molecular Diagnosis System***

**Fewer steps. Walkaway workflow. High quality results.**



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



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—It, tlh, O139rfb, ctxA, foxA, stlb, stxI, 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℃ 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℃ 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℃ 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	20μL ~250μL
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	20μL ≤ V < 40μL: accuracy: A ≤ 5.0%, repeatability: CV ≤ 3.0% 40μL ≤ V < 100μL: accuracy: A ≤ 3.0%, repeatability: CV ≤ 1.5% V ≥ 100μL: accuracy: A ≤ 1.0%, repeatability: CV ≤ 1.0%
Extraction Heating Rate	Average heating rate: ≥ 1.5°C/s;
Extraction Temperature Accuracy	≤ 1.0°C
PCR Heating Rate	Average heating rate: ≥ 4.5°C/s Maximum heating rate: ≥ 6.1°C/s
PCR Cooling Rate	Average cooling rate: ≥ 3.5°C/s; Maximum cooling rate: ≥ 5.0°C/s.
PCR Temperature Accuracy	≤ 0.1°C
Sample Testing Linearity and Repeatability	Linear correlation: /r/ ≥ 0.998 Repeatability: CV ≤ 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) × 350mm (W) × 600mm (H)
Weight	80Kg

