



# XABT Product Catalog

Precise Diagnosis  
Better Health

Comprehensive Solutions for Infectious Diseases Testing

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**XABT**

## COMPANY PROFILE

Beijing Applied Biological Technologies Co., Ltd. (XABT), was founded in 2010, and it is a national high-tech enterprise dedicated to providing integrated solutions for infectious disease diagnosis. The company's headquarters is located in Zhongguancun Life Science Park, Beijing, with 2 R&D centers and clean workshops that comply with Good Manufacturing Practice(GMP) requirements.

The company has developed more than 800 types of diagnostic reagents and obtained over 30 National Medical Products Administration(NMPA) certificates. Its business scope covers public health, clinical diagnosis, third-party laboratories and home self-testing fields. Adhering to the mission of "Precise Diagnosis, Better Health", XABT is committed to becoming a trustworthy expert enterprise in infectious disease diagnosis.



WHO List



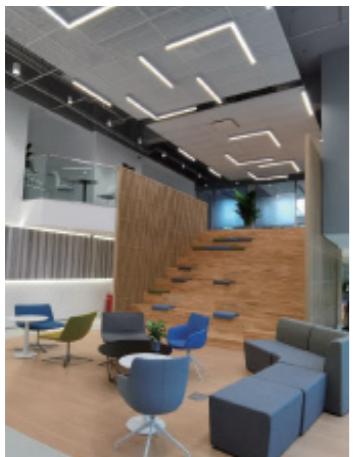
Declaration of Conformity



Categories of Products



Quality System



## CONTENTS

04

05

09

15

18

22

24

### Products with NMPA certification

#### Rapid Screening Protocol for Fever accompanied by respiratory syndrome

Series of Multiplex PCR Detection Kits for Respiratory Pathogens 05

#### Rapid Screening Protocol for Foodborne Diarrhea Syndrome

Multiplex Real-Time PCR Detection Kit for Common Foodborne Pathogens 09

Multiplex PCR Detection Kits for Five Diarrheagenic Escherichia coli Species 13

#### Rapid Screening Protocol for Fever with Rash Syndrome

Series of Nucleic Acid Detection Kits for Hand, Foot, and Mouth Disease 15

Other Nucleic Acid Detection Kits for Fever with Rash Syndrome 17

#### Rapid Screening Protocol for Fever with Hemorrhagic Syndrome

Series of Nucleic Acid Detection Kits for Common Zoonotic Pathogens 18

Series of Nucleic Acid Detection Kits for Vector-borne Pathogens 19

#### Series of Rapid Screening Protocols for Other Diseases

Series of Nucleic Acid Detection Kits for Encephalitis and Meningitis 22

Series of PCR Detection Kits for Antimicrobial Resistance Genes 22

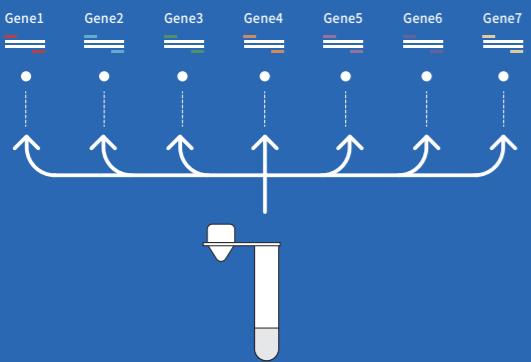
Series of PCR Detection Kits for Sexually Transmitted Diseases 23

#### Development History

## Technical Platform

### Multiplex PCR Testing Technology Platform

Designing a multiplex assay with probes targeting a specific clinical syndrome, allows for a preliminary diagnosis of the suspected infection in a single test.



### Standard Liquid Reagen

Each component is dispensed separately, reducing interference between components and enhancing detection flexibility.

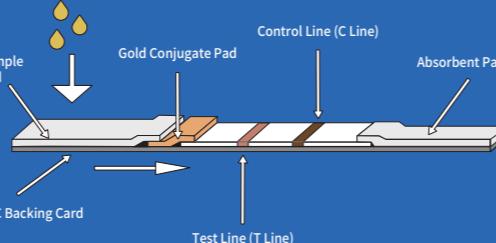
### Premixed Liquid Reagent

Single-step sample addition for operational simplicity, significantly reduced contamination risks, and full compliance with pathogen surveillance requirements.



### Immunochromatography Technology Platform

A single sample enables the simultaneous detection of multiple target pathogens, with results available within 15 minutes.



### Fully Premixed Liquid Reagent

The PCR reaction mix is pre-aliquoted, ready for direct sample addition and immediate loading onto the instrument.

Two-Tube Components

PCR results are available within 1 hour of loading

### Efficiency Upgrade

## Detection Channels

Multiplexing Level	Detection Channels	Applicable Instruments
Compatible with common four-color fluorescence channels (4-plex)	FAM, ROX, HEX(VIC), CY5 (LIZ)	ABI Series (7500/7500Fast/ViiA7) Bio-Rad Series (iQ5/CFX96/CFX384) Qiagen Series (Rotor-Gene Q) Agilent Series (Mx3000P/Mx3005P) Tianlong/Bioer/SLAN etc.

## Products with NMPA certification

As a national high-tech enterprise specializing in the diagnosis of infectious diseases, Beijing Applied Biological Technologies Co., Ltd has deeply rooted itself in the field of pathogenic microorganism detection and obtained over 10 Class III NMPA(National Medical Products Administration) registration certificates. This achievement is not only a core initiative in fulfilling its mission of "Precise Diagnosis, Better Health", but also a demonstration of its responsibility in responding to national regulatory requirements for medical device compliance and safeguarding public health security. This strategic layout is built upon two foundational platforms: the Multiplex Real-time Fluorescent PCR platform and the Immunochromatographic Colloidal Gold platform. It comprehensively covers the detection needs for various pathogens, including respiratory viruses, bacteria, and fungi. Through rigorous clinical trials and technical reviews, the company ensures the safety, efficacy, and stability of each product, fully complying with the high standards set by NMPA for in vitro diagnostic (IVD) products.

Table I-1

### Real-Time PCR

No.	Item No.	Product Name	Spec.	CE Classification
1	CT8022	Duplex Real-Time PCR Detection Kit for Coxsackievirus A16 and Human Enterovirus 71	24T/48T	Class C
2	CT8012	Duplex Real-Time PCR Detection Kit for Influenza Virus A and Influenza Virus B	24T/48T	Class B
3	CT8122	Duplex Real-Time PCR Kit for Detection of Mycoplasma Pneumoniae and Bordetella Pertussis	24T/48T	Class C
4	CT8223	Multiple Real-Time PCR Kit for Detection of 2019-nCoV	48T	Class B
5	CT8046	Multiplex Real-Time PCR Detection Kit for 6 respiratory viruses	24T/48T/96T/240T	Class B
6	CT8031	Real-Time PCR Detection Kit for Enterovirus	24T/48T	Class C
7	CT8153	Triplex Real-Time PCR Detection Kit for Human metapneumovirus/Human rhinovirus/Human bocavirus	24T/48T/96T/240T	Class B
8	CT8173	Triplex Real-Time PCR Detection Kit for Klebsiella pneumoniae, Pseudomonas aeruginosa and Acinetobacter baumannii	24T/48T	Class C
9	CT8163	Triplex Real-Time PCR Detection Kit for Streptococcus pneumoniae, Haemophilus influenzae and Moraxella catarrhalis	24T/48T	Class C
10	CT8143	Triplex Real-Time PCR Kit for Detection of Aspergillus, Cryptococcus neoformans and Pneumocystis jirovecii	24T/48T	Class C
11	CT8131	Real-Time PCR Kit for Detection of Aspergillus	24T/48T	
12	CT8183	Triplex Real-Time PCR Kit for Detection of Escherichia coli/Enterobacter cloacae complex/Burkholderia cepacia complex	24T/48T	Class C

Table I-2

### Immunochromatography - Colloidal Gold

No.	Item No.	Product Name	Spec.	CE Classification
1	CG9011(S)-AN	2019-nCoV Antigen Rapid Test Cassette(Colloidal Gold Method)	5T	Class C
2	G16P1-M1-1T	Combined Detection Kit for Serum Amyloid A/C-reactive Protein(SAA/CRP)(Colloidal Gold Method)	1T/5T/20T	
3	G2P1	Multiplex Detection Kit for Respiratory Pathogen Antigens (Colloidal Gold Method) Influenza A Virus/Influenza B Virus/Respiratory Syncytial Virus/Adenovirus/Mycoplasma Pneumoniae	1T/5T/25T/50T/100T	
4	CG9011-AN	2019-nCoV Antigen Rapid Test Cassette Anterior Nasal Swab	5T	Class B
5	CG9011-O CG9011-N	2019-nCoV Antigen Rapid Test Cassette Nasopharyngeal and Oropharyngeal Swab	5T	Class B
6	CG9041-1T	2019-nCoV Antigen Rapid Test Cassette Saliva	1T	Class B
7	G1P5	2019-nCoV Antigen Rapid Test Cassette	5T	Class B
8	G3P20	6 Respiratory Pathogen Antigens Rapid Test Cassette (Colloidal Gold Method)(Influenza A Virus / Influenza B Virus / Respiratory Syncytial Virus / Respiratory Adenovirus / Mycoplasma Pneumoniae/ SARS-CoV-2)	20T/30T	Class B
9	G6P1	Rotavirus/Adenovirus/Norovirus Antigen Rapid Test Cassette (Colloidal Gold Method)	20T/25T/30T	Class B

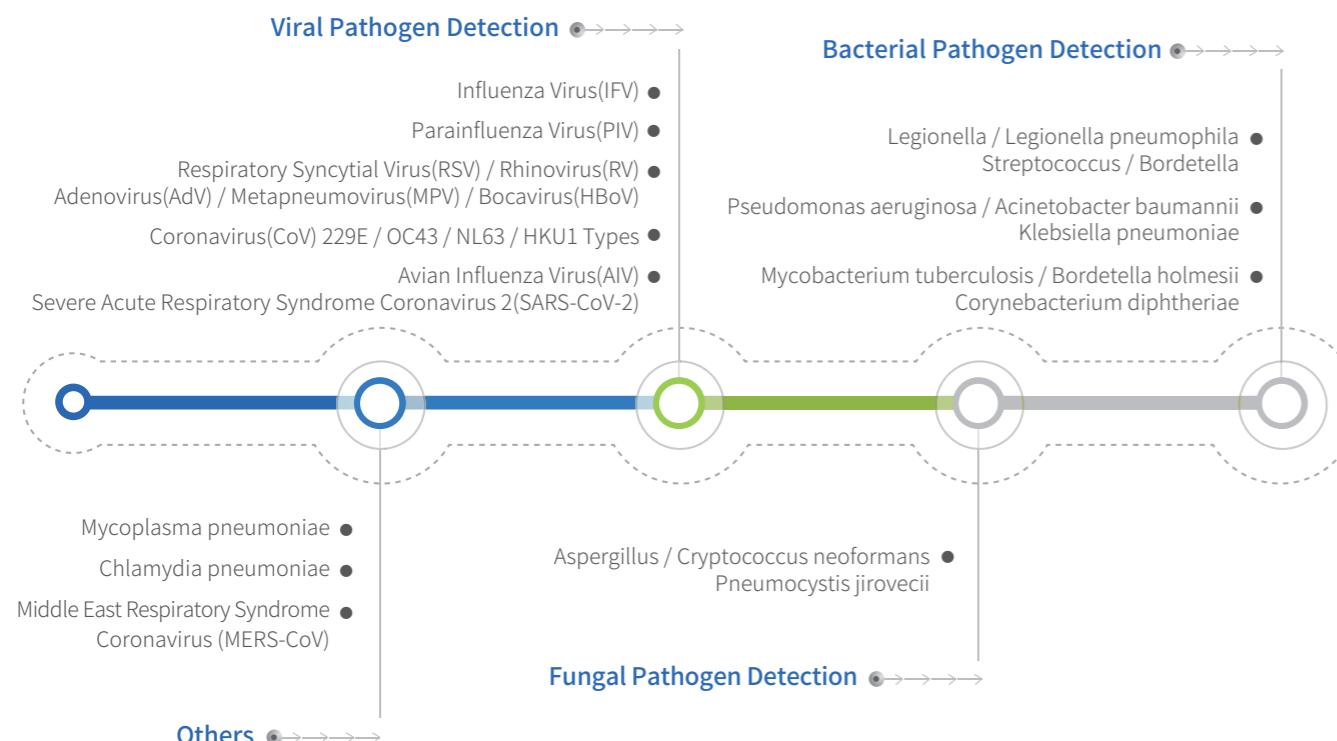
## Rapid Screening Protocol for Fever accompanied by respiratory syndrome

### Series of Multiplex PCR Detection Kits for Respiratory Pathogens

Fever accompanied by respiratory syndrome is the most common type of acute infectious disease, primarily caused by a variety of pathogens that lead to localized respiratory tract infections or lesions in tissues and organs outside the respiratory system. To improve laboratory testing efficiency and rapidly identify the causative pathogens, Beijing Applied Biological Technologies Co., Ltd has developed a comprehensive portfolio of multiplex assay solutions for various respiratory pathogens. These solutions are designed to meet the needs of different testing platforms and aim to provide simpler, faster testing options for epidemiological investigations, disease treatment, and epidemic prevention and control.

### Comprehensive Respiratory Pathogen Detection

Covers the five major syndrome testing items specified in national key science and technology projects and respiratory pathogens associated with legally notifiable infectious diseases in China.



### Multiplex Detection Solution for Respiratory Pathogens: Rapid and Efficient



Table II

No.	Item No.	Product Name	Spec.	CE Classification
1	A784QYH	Multiplex Real-Time PCR Detection Kit for 17 Species of Respiratory Pathogens	25T/50T	Class B
2	A9033YH	Multiple Real-Time PCR Kit for Detection of Human Rhinovirus, Human Bocavirus and Human Metapneumovirus	25T/50T	
3	A9033YH	Multiple Real-Time PCR Kit for Detection of Human Rhinovirus, Respiratory syncytial virus, Adenovirus and Parainfluenza Virus	25T/50T	
4	A7034YH	Multiple Real-Time PCR Kit for Detection of Human Influenza Viruses, Adenovirus and Respiratory syncytial virus	25T/50T	
5	A7044YH	Multiple Real-Time PCR Kit for Detection of Parainfluenza Viruses	25T/50T	
6	A5674YH	Multiple Real-Time PCR Kit for Detection of Coronavirus HKU1/OC43/229E/NL63	25T/50T	
7	A2553YH	Multiple Real-time PCR Detection Kit for Middle East Respiratory Syndrome (MERS)	25T/50T	Class D without Common Specification
8	A9531YH	Real-time PCR Kit for Detection of Burkholderia pseudomallei	25T/50T	
9	A3881YH	Real-Time PCR Kit for Detection of Human Metapneumovirus	25T/50T	
10	A3891YH	Real-Time PCR Kit for Detection of Human Rhinovirus	25T/50T	
11	A3901YH	Real-time PCR Detection Kit for Bocavirus	25T/50T	Class B
12	A3931YH	Real-time PCR Detection Kit for Respiratory Syncytial Virus	25T/50T	Class B
13	D1222YH	Multiple Real-Time PCR Kit for Detection of respiratory syncytial viruses A/B	25T/50T	
14	A7371YH	Real-Time PCR Diagnostic Kit for Rapid Detection of Respiratory Adenovirus	25T/50T	Class B
15	D5631YH	Real-Time PCR Kit for Detection of Legionella Lp1	25T/50T	
16	A5971YH	Real-Time PCR Kit for Detection of Legionella pneumophila	25T/50T	
17	A3911YH	Real-time PCR Detection Kit for Mycoplasma Pneumoniae	25T/50T	Class C
18	A5531YH	Real-Time PCR Kit for Detection of Streptococcus pneumoniae	25T/50T	
19	A5981YH	Real-Time PCR Kit for Detection of Group A streptococcus	25T/50T	
20	D1501YH	Real-Time PCR Kit for Detection of Group A streptococcus pyogens	25T/50T	
21	A5951YH	Real-Time PCR Kit for Detection of Haemophilus influenzae	25T/50T	
22	A5961YH	Real-Time PCR Kit for Detection of Klebsiella pneumoniae	25T/50T	

Table II

No.	Item No.	Product Name	Spec.	CE Classification
23	A5551YH	Real-Time PCR Kit for Detection of <i>Acinetobacter baumanii</i>	25T/50T	
24	A5162YH	Duplex Real-Time PCR Diagnostic Kit for Identifying <i>Tox</i> Virulence Gene in <i>Corynebacterium Diphtheriae</i> (TaqMan probe method)	25T/50T	Class C
25	D2821YH	Real-Time PCR Kit for Detection of <i>Bordetella Pertussis</i>	25T/50T	
26	A2442YH	Multiple Real-Time PCR Kit for Detection of <i>Legionella</i> and <i>Legionella pneumophila</i>	25T/50T	
27	D1382YH	Multiple Real-Time PCR Kit for Detection of <i>Mycoplasma pneumoniae/Chlamydia pneumoniae</i>	25T/50T	
28	A2472YH	Multiple Real-time PCR Detection Kit for <i>Bordetella Pertussis</i>	25T/50T	Class C
29	A9424YH	Multiple Real-Time PCR Kit for Detection of <i>Bordetella pertussis/ Bordetella parapertussis/Bordetella holmesii</i>	25T/50T	
30	A3653YH	Multiple Real-Time PCR Kit for Detection of <i>Mycoplasma pneumoniae/ Chlamydia pneumoniae /Legionella pneumophila</i>	25T/50T	
31	D3833YH	Multiple Real-Time PCR Kit for Detection of <i>Streptococcus pneumoniae/ Mycoplasma pneumoniae/Chlamydia pneumoniae</i>	25T/50T	
32	A3011YH	Real-time PCR Detection Kit for <i>Influenza Virus A</i>	25T/50T	
33	A3031YH	Real-time PCR Detection Kit for <i>Influenza A H1N1 pdm2009 Virus</i>	25T/50T	
34	A3041YH	Real-time PCR Detection Kit for Seasonal <i>Influenza Virus H1 subtype</i>	25T/50T	
35	A3051YH	Real-time PCR Detection Kit for Seasonal <i>Influenza Virus H3 subtype</i>	25T/50T	
36	A6132YH	Multiple Real-Time PCR Detection Kit for <i>H3N2 subtype Influenza Virus</i>	25T/50T	
37	A3702YH	Multiple Real-Time PCR Detection Kit for <i>Human Influenza A Virus H1N1 pdm2009 and Seasonal H3 subtypes</i>	25T/50T	
38	A7432YH	Multiple Real-Time PCR Detection Kit for <i>Influenza Virus N1/N6 Subtypes</i>	25T/50T	
39	A7442YH	Multiple Real-Time PCR Detection Kit for <i>Influenza Virus N2/N9 Subtypes</i>	25T/50T	
40	D3584YH	Multiple Real-Time PCR Detection Kit for <i>Influenza Virus N1/N2N6/N9 Subtypes</i>	25T/50T	
41	A9745YH	Multiple Real-Time PCR Detection Kit for <i>Influenza Virus N1/N2N6/N8/N9 Subtypes</i>	25T/50T	
42	D2211YH	Real-time PCR Detection Kit for <i>H3 subtype influenza virus</i>	25T/50T	
43	A3021YH	Real-time PCR Detection Kit for <i>Influenza Virus B</i>	25T/50T	
44	A3091YH	Real-time PCR Detection Kit for <i>Influenza B Victoria Lineage Virus</i>	25T/50T	
45	A3101YH	Real-time PCR Detection Kit for <i>Influenza B Yamagata Lineage Virus</i>	25T/50T	
46	A2492YH	Multiple Real-Time PCR Detection Kit for <i>Influenza B Victoria/Yamagata Lineage Viruses</i>	25T/50T	
47	A2432YH	Multiple Real-Time PCR Detection Kit for <i>Influenza Viruses A/B</i>	25T/50T	
48	A2484YH	Multiple Real-Time PCR Detection Kit for <i>Human Influenza Viruses A/B and H1N1 pdm2009 /Seasonal H3 subtypes</i>	25T/50T	
49	A2774YH	Multiple Real-Time PCR Detection Kit for <i>Human Influenza A Virus H1N1 pdm2009 / Seasonal H3 subtypes and Influenza B Victoria/Yamagata Lineage Viruses</i>	25T/50T	
50	A9071YH	Real-time PCR Detection Kit for <i>Eurasian avian-like H1N1 Swine Influenza Virus</i>	25T/50T	
51	D2322YH	Multiple Real-Time PCR Detection Kit for <i>H3N8 Subtype Avian Influenza Virus</i>	25T/50T	

Table II

No.	Item No.	Product Name	Spec.	CE Classification
52	A3212YH	Multiple Real-Time PCR Detection Kit for <i>H5N6 Subtype Avian Influenza Virus</i>	25T/50T	
53	A3962YH	Multiple Real-Time PCR Detection Kit for <i>H5N1 Subtype Avian Influenza Virus</i>	25T/50T	
54	A3202YH	Multiple Real-Time PCR Detection Kit for <i>H7N9 Subtype Avian Influenza Virus</i>	25T/50T	
55	A6142YH	Multiple Real-Time PCR Detection Kit for <i>H9N2 Subtype Avian Influenza Virus</i>	25T/50T	
56	A7112YH	Multiple Real-Time PCR Detection Kit for <i>H10N8 Subtype Avian Influenza Virus</i>	25T/50T	
57	A2463YH	Multiple Real-time PCR Detection Kit for <i>Avian Influenza Virus H5/H7/H9 Subtypes</i>	25T/50T	
58	D7214YH	Multiple Real-Time PCR Detection Kit for <i>Avian Influenza Virus H3/H5/H9/H10 Subtypes</i>	25T/50T	
59	A2044YH	Multiple Real-Time PCR Detection Kit for <i>Avian Influenza Viruses (Influenza Virus A and H5/H7/H9 Subtypes)</i>	25T/50T	
60	A7834YH	Multiple Real-Time PCR Detection Kit for <i>SARS-CoV-2 and Influenza Viruses A/B</i>	25T/50T	Class B
61	A7712YH	Duplex Real-Time PCR Detection Kit for <i>SARS-CoV-2 ORF1ab/N</i>	25T/50T	Class B
62	D3241YH	PCR-based <i>Mycobacterium Tuberculosis Complex Test Kit (Fluorometric PCR)</i>	25T/50T	Class C

## Product Features

- 01** One Nucleic Acid Extraction, Comprehensive Coverage of Target Pathogens
- 02** Internal Control Monitoring, Covering Common Respiratory Viruses and Bacteria
- 03** Viruses and Bacteria Can Be Simultaneously Detected Under the Same Protocol
- 04** Timely Screening for Mixed Respiratory Pathogen Infection Risks



## Rapid Screening Protocol for Foodborne Diarrhea Syndrome

### Multiplex Real-Time PCR Detection Kit for Common Foodborne Pathogens

Foodborne pathogenic microorganisms are important biological factors causing food poisoning. With the increasing emphasis on food safety work, it has become an urgent priority to narrow down the suspicious scope in the first place, reduce blind screening, obtain pathogen identification results as early as possible, and identify the causes of food poisoning.

The Foodborne Pathogen Multiplex Detection Reagent Series developed by Beijing Applied Biological Technologies Co., Ltd, based on fluorescent PCR technology, enables simultaneous screening and identification of multiple common foodborne pathogenic bacteria in a single reaction. This saves operational time, reduces labor and material costs, and significantly enhances the emergency response capability for food poisoning incidents.

#### Product Features

<b>Comprehensive</b> 01	<b>Rapid</b> 02	<b>IAC</b> 03	<b>Platform Compatibility</b> 04
Covers a comprehensive range of common foodborne pathogenic bacteria in a single reaction.	Amplification and detection of multiple pathogens completed within 60 minutes.	Includes an internal control to monitor the entire reaction system and prevent false negatives.	Meets the requirements for fluorescence PCR applications.



### Viruses Detection Spectrum

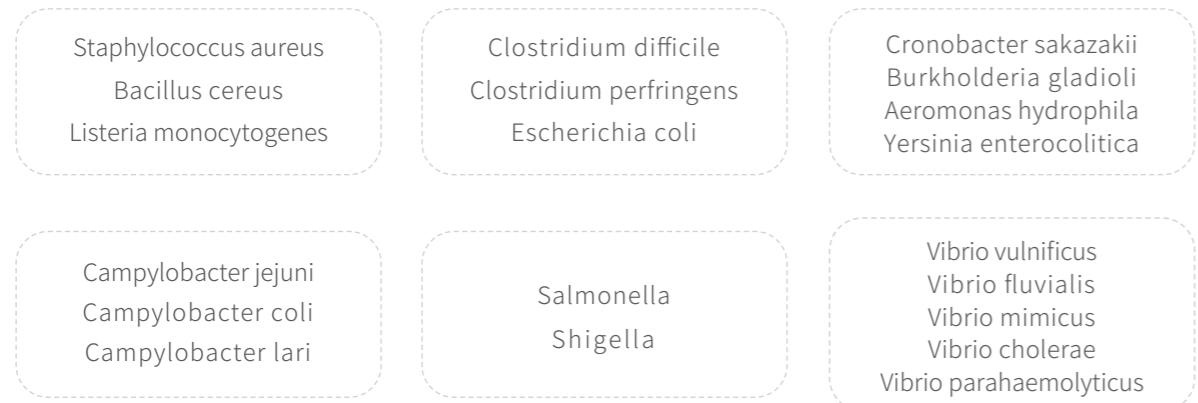
Norovirus GI Type  
Norovirus GII Type  
Sapovirus

Group A Rotavirus  
Adenovirus  
Astrovirus

Hepatitis A / B / C / D / E  
Viruses

Table III

No.	Item No.	Product Name	Spec.	CE Classification
1	A3151YH	Real-Time PCR Kit for Detection of Rotavirus Group A	25T/50T	
2	A7153YH	Multiple Real-Time PCR Kit for Detection of Rotavirus Group A, B and C	25T/50T	
3	A6341YH	Real-Time PCR Kit for Detection of Rotavirus	25T/50T	
4	A2602YH	Multiple Real-Time PCR Detection Kit for Norovirus GI/GII	25T/50T	Class B
5	A6201YH	Real-Time PCR Kit for Detection of Norovirus	25T/50T	
6	A3181YH	Real-time PCR Detection Kit for Norovirus GI	25T/50T	Class B
7	A3191YH	Real-time PCR Detection Kit for Norovirus GII	25T/50T	Class B
8	A3561YH	Real-Time PCR Kit for Detection of Sapovirus	25T/50T	
9	D9684YH	Multiple Real-Time PCR Kit for Detection of Sapovirus Genogroups I, II, IV and V	25T/50T	
10	D1061YH	Real-Time PCR Kit for Detection of Human Rhinovirus	25T/50T	
11	D9713YH	Multiple Real-Time PCR Kit for Detection of Astrovirus of the Classic, MLB and VA/HMO	25T/50T	
12	A3951YH	Real-Time PCR Kit for Detection of MS2	25T/50T	
13	A3921YH	Real-Time PCR Kit for Detection of Adenovirus	25T/50T	
14	A5331YH	Real-time PCR Detection Kit for Enteral Adenovirus	25T/50T	Class B
15	A3581YH	Real-time PCR Detection Kit for Hepatitis E Virus	25T/50T	Class B
16	A5121YH	Real-time PCR Detection Kit for Hepatitis E Virus	25T/50T	Class B
17	D2401YH	Real-Time PCR Kit for Detection of Human Hepatitis DB Virus	25T/50T	
18	D2411YH	Real-Time PCR Kit for Detection of Human Hepatitis C Virus	25T/50T	
19	D2421YH	Real-Time PCR Kit for Detection of Human Hepatitis D Virus	25T/50T	
20	A7942YH	Multiple Real-Time PCR Kit for Detection of Human Hepatitis A and E Virus	25T/50T	
21	A2593YH	Multiple Real-time PCR Detection Kit for Group A Rotavirus / Norovirus GI / Norovirus GII	25T/50T	Class B
22	A5961YH	Multiple Real-Time PCR Kit for Detection of Sapovirus, Adenovirus and Astrovirus	25T/50T	
23	A7123YH	Multiple Real-Time PCR Kit for Detection of Sapovirus, Norovirus genogroups I and II	25T/50T	
24	A7133YH	Multiple Real-Time PCR Kit for Detection of Rotavirus group A, Adenovirus and AstrovirusCorynebacterium Diphtheriae (TaqMan probe method)	25T/50T	
25	A9106Y	Multiplex Real-time PCR Diagnostic Kit for Rapid Detection of Six Diarrheal Viruses	25T/50T	Class B

**Bacteria Detection Spectrum****Table IV**

No.	Item No.	Product Name	Spec.	CE Classification
1	A2090YH	Real-Time PCR Kit for Detection of Staphylococcus aureus	25T/50T	
2	A2180YH	Real-Time PCR Kit for Detection of Vibrio vulnificus	25T/50T	
3	A2220YH	Real-Time PCR Kit for Detection of Vibrio fluvialis	25T/50T	
4	A2230YH	Real-Time PCR Detection Kit for Detection of Vibrio mimicus	25T/50T	
5	A2050YH	Real-Time PCR Kit for Detection of Vibrio Parahemolyticus	25T/50T	
6	A3573YH	Multiple Real-Time PCR Kit for Detection of Virulence Factors in Vibrio parahaemolyticus	25T/50T	
7	A2974YH	Multiple Real-Time PCR Kit for Detection of toxR/tdh/trh/tlh genes in Vibrio parahaemolyticus	25T/50T	
8	A2200YH	Real-time PCR Detection Kit for Vibrio Cholerae Nucleic Acid	25T/50T	Class C
9	A5172YH	Multiple Real-Time PCR Kit for Detection of Vibrio cholerae O1 Group/O139 Group	25T/50T	
10	D2452YH	Multiple Real-Time PCR Kit for Detection of Vibrio cholera enterotoxin ctxA/ctxB	25T/50T	
11	A5194YH	Quadruple Real-time PCR Detection Kit for Universal Type Vibrio Cholerae / O1 Group / O139 Group / CTX Gene	25T/50T	Class C
12	D2631YH	Real-Time PCR Kit for Detection of Aeromonas hydrophila	25T/50T	
13	A5561YH	Real-time PCR Detection Kit for O1 group vibrio cholerae	25T/50T	Class C
14	D1932YH	Multiple Real-Time PCR Kit for Detection of Salmonella and Shigella	25T/50T	
15	A2070YH	Real-time PCR Detection Kit for Shigella Strains	25T/50T	Class B
16	A2060YH	Real-time PCR Detection Kit for Salmonella	25T/50T	Class B
17	A2140YH	Real-Time PCR Kit for Detection of Listeria monocytogenes	25T/50T	
18	A7361YH	Real-Time PCR Kit for Detection of Bacillus Cereus	25T/50T	

**Table IV**

No.	Item No.	Product Name	Spec.	CE Classification
19	D2103YH	Multiple Real-Time PCR Kit for Detection of nheB, cesB and hblC virulence genes of Bacillus Cereus	25T/50T	
20	A2340YH	Real-time PCR Diagnostic Kit for Rapid Detection of Clostridium difficile	25T/50T	Class B
21	A5421YH	Real-Time PCR Kit for Detection of Clostridium Perfringens	25T/50T	
22	A2170YH	Real-Time PCR Kit for Detection of Campylobacter jejuni	25T/50T	
23	A2242YH	Duplex Real-time PCR Detection Kit for Campylobacter Jejuni and Campylobacter coli	25T/50T	Class C
24	A2503YH	Multiple Real-time PCR Diagnostic Kit for Rapid Detection of C. jejuni, C. coli and C. lari	25T/50T	Class B
25	A2160YH	Real-Time PCR Kit for Detection of Yersinia enterocolitica	25T/50T	
26	A2080YH	Real-Time PCR Kit for Detection of Cronobacter	25T/50T	
27	D2151YH	Real-Time PCR Kit for Detection of Burkholderia gladioli pv.cocovenenans	25T/50T	
28	A9612YH	Multiple Real-Time PCR Kit for Detection of Burkholderia gladioli pv.cocovenenans	25T/50T	
29	D1473YH	Triple Real-time PCR Detection Kit for Salmonella / Shigella / Vibrio Cholerae	25T/50T	Class C
30	A9051YH	Real-Time PCR Kit for Detection of Escherichia coli	25T/50T	
31	A2102YH	Multiple Real-Time PCR Kit for Detection of Shiga Toxin-producing Escherichia coli(STEC)	25T/50T	
32	A2150YH	Real-Time PCR Kit for Detection of Escherichia coli O157	25T/50T	
33	A5454YH	Real-time PCR Diagnostic Kit for Rapid Detection of Enterohemorrhagic E. coli (EHEC)	25T/50T	Class C
34	A714LYH	Multiplex PCR Detection Kit for 5 Diarrheagenic Escherichia coli	25T/50T	Class C



## Multiplex PCR Detection Kits for Five Diarrheagenic Escherichia coli Species

Escherichia coli, commonly known as E. coli, is an important normal flora in the intestinal tract, providing the host with some nutritionally beneficial metabolites. However, it can become an opportunistic pathogen when the host's immunity is compromised or when the bacteria invade extraintestinal tissues and organs. Certain diarrheagenic strains of E. coli can cause a range of diseases primarily affecting the gastrointestinal tract, such as diarrhea, acute inflammation, hemorrhagic colitis, urinary tract infections, sepsis, and neonatal meningitis. Currently, based on their pathogenic mechanisms, diarrheagenic E. coli are classified into five major categories: Enteropathogenic E. coli (EPEC), Enterohemorrhagic E. coli (EHEC), Enterotoxigenic E. coli (ETEC), Enteroinvasive E. coli (EIEC), and Enteropathogenic E. coli (EAEC).

Given the limitations of traditional methods such as biochemical identification and serotyping in accurately determining pathogenicity, our detection reagents enable the assessment of a specific strain's transmissibility in the population, clinical manifestations of the disease, and disease prognosis by detecting the presence of virulence genes and pathogenic types. The reagent series complies with the relevant standard requirements for the PCR confirmation test of diarrheagenic Escherichia coli (DEC) as specified in GB 4789.6-2016 and the Surveillance Manual, and meets the needs of routine testing, active surveillance, and emergency screening.

### Five Types of Diarrhea-Causing E. coli Characteristic Genes

Diarrhea-Causing E. coli Category	Characteristic Genes	uidA
EPEC (Enteropathogenic Escherichia coli)	<i>escV</i> or, <i>eae bfpB</i>	
EHEC (Enterohemorrhagic Escherichia coli)	<i>escV</i> or <i>eae</i> , <i>stx1</i> , <i>stx2</i>	
EIEC (Enteroinvasive Escherichia coli)	<i>invE</i> or <i>ipaH</i>	
ETEC (Enterotoxigenic Escherichia coli)	<i>elt</i> ( <i>lt</i> ) , <i>estlA</i> ( <i>stp</i> ) , <i>estlB</i> ( <i>sth</i> )	
EAEC (Enteropathogenic Escherichia coli)	<i>astA</i> , <i>aggR</i> , <i>pic</i>	

### Product Features

- ▶ Powerful Multiplex Detection
- ▶ Comprehensive Coverage of the Virulence Gene Spectrum for All Pathogenic Types
- ▶ Supports Reporting of Results for Individual Genes and Pathotypes
- ▶ Diversified Testing Solutions to Meet Diverse Application Needs
- ▶ Target Genes Fully Compliant with National Standards and Guidelines for Risk Assessment & Surveillance
- ▶ Featured Liquid Pre-Aliquoted Reagent Format, Ready for Direct Instrument Loading



Pre-aliquoted Reagent Format for  
Streamlined Operation  
No Reagent Preparation Required

### Interpretation Criteria

Diarrhea-Causing E. coli Category	Gene	Result Interpretation
EPEC	<i>stx1</i>	<i>eae</i> (+) <i>Stx1</i> (-) <i>bfpB</i> (+) <i>Stx2</i> (-) is diagnosed as typical EPEC
	<i>eae</i>	<i>eae</i> (+) <i>Stx1</i> (-) <i>bfpB</i> (-) <i>Stx2</i> (-) is diagnosed as atypical EPEC
EHEC	<i>bfpB</i>	<i>eae</i> (+/-) <i>bfpB</i> (-) , at least one of <i>Stx1</i> or <i>Stx2</i> is positive, diagnosed as EHEC
	<i>stx2</i>	
EIEC	<i>ipaH</i>	<i>ipaH</i> (+) is diagnosed as EIEC
	<i>estlB</i>	
ETEC	<i>estlA</i>	
	<i>elt</i>	At least one of <i>estlB</i> , <i>estlA</i> , <i>elt</i> is positive, diagnosed as ETEC
EAEC	<i>aggR</i>	
	<i>astA</i>	If one or more of <i>aggR</i> , <i>pic</i> , <i>astA</i> are positive, diagnosed as EAEC
	<i>pic</i>	
Species Gene	<i>uidA</i>	When only <i>uidA</i> (+) is positive and all other detection targets are negative, it is diagnosed as non-diarrheagenic E. coli

## Rapid Screening Protocol for Fever with Rash Syndrome

### 01. Series of Nucleic Acid Detection Kits for Hand, Foot, and Mouth Disease

Hand, Foot, and Mouth Disease is a common infectious disease caused by a variety of enteroviruses. It predominantly affects children under the age of five, is most prevalent in summer and autumn, with a peak incidence around July. Common symptoms include fever and rash. In a small number of cases, patients may develop complications such as aseptic meningitis, neurogenic pulmonary edema, and myocarditis. Severe cases can lead to death. The disease is highly contagious with complex transmission routes and can cause large-scale outbreaks in a short period. Therefore, early screening and confirmation are of great significance for the diagnosis of Hand, Foot, and Mouth Disease.

More than 20 types of enteroviruses can cause Hand, Foot, and Mouth Disease, typically including those from the Coxsackievirus A group (CA16/CA6/CA10) and Enterovirus 71 (EV71). Among these, Coxsackievirus A16 (CA16) and Enterovirus 71 (EV71) are the most common. Recent surveillance data indicate that Coxsackievirus A6 (CA6) has also gradually emerged as another prevalent pathogen. We offer a comprehensive range of multiplex detection solutions for Hand, Foot, and Mouth Disease-related viruses, catering to different etiological surveillance protocols and practical application needs, and significantly enhancing testing efficiency.

### Scheme Features

01

Up to 5-Plex Real-Time Fluorescent PCR Detection for Comprehensive and Rapid Screening

02

Diverse Panel Configurations to Meet Varied Pathogen Surveillance Requirements

03

Includes Internal Controls to Monitor the Entire Process from Nucleic Acid Extraction to Result Interpretation

04

Compatible with Multiplex Fluorescence Detectors for Automated and Rapid Identification of Multiple Pathogens

05

Advanced Premix Aliquoting Technology for Maximum Workflow Simplification

Table V

No.	Item No.	Product Name	Spec.	CE Classification
1	A2691YH	Real-Time PCR Kit for Detection of Human Enterovirus	25T/50T	
2	A2681YH	Real-Time PCR Diagnostic Kit for Human Enterovirus 71 (EV71) (TaqMan probe method)	25T/50T	Class C
3	A5581YH	Real-Time PCR Kit for Detection of Coxsackievirus A2	25T/50T	
4	A2651YH	Real-Time PCR Kit for Detection of Coxsackievirus A6	25T/50T	
5	A2661YH	Real-Time PCR Kit for Detection of Coxsackievirus A10	25T/50T	
6	A2671YH	Real-Time PCR Kit for Detection of Coxsackievirus A16	25T/50T	
7	A5771YH	Real-Time PCR Kit for Detection of Coxsackievirus B5	25T/50T	
8	A2613YH	Real-time PCR Detection Kit for Coxsackievirus A16, Enterovirus 71 and Enterovirus	25T/50T	Class C
9	A7221YH	Real-Time PCR Kit for Detection of Echovirus 11	25T/50T	
10	A2622YH	Real-time PCR Detection Kit for Coxsackievirus A6 and Coxsackievirus A10	25T/50T	Class C
11	D2633YH	Multiple Real-time PCR Kit for Detection of Coxsackievirus A16, Enterovirus 71 and Human Enterovirus(2+1)	25T/50T	
12	A5265YH	Multiplex Real-time PCR Kit for Detection of Coxsackievirus A6,A10,A16, Enterovirus 71 and Human Enterovirus(2+3)	25T/50T	
13	A2712YH	Multiple Real-Time PCR Kit for Detection of Coxsackievirus A16 and Enterovirus 71	25T/50T	
14	A9402YH	Multiple Real-Time PCR Kit for Detection of Echovirus 11 and Echovirus 30	25T/50T	
15	D1242YH	Multiple Real-Time PCR Kit for Detection of Human Enterovirus 70 and Coxsackievirus A24	25T/50T	



## 02. Other Nucleic Acid Detection Kits for Fever with Rash Syndrome

Rubella and measles are common respiratory infectious diseases caused by rubella virus and measles virus infection, respectively. Both are highly contagious and primarily transmitted through airborne droplets. They predominantly affect children, and in recent years, their incidence rates have shown an increasing trend year by year, warranting widespread attention. The clinical symptoms of rubella and measles infections are similar, making differential diagnosis challenging. Moreover, with the gradual implementation of vaccination programs, surveillance efforts for rubella, measles, and mumps have been intensified year by year.

Monkeypox is a zoonotic infectious disease caused by the monkeypox virus, which can infect both humans and animals. The monkeypox virus belongs to the genus Orthopoxvirus in the family Poxviridae and is classified into two clades: the West African clade and the Congo Basin clade. High-risk groups for the disease primarily include healthcare workers exposed to the virus, individuals with close contact with monkeypox patients, as well as children, pregnant women, and immunocompromised individuals.

### Product Features

- Comprehensive Coverage of Dominant Genotypes to Avoid Missed Detection
- Includes Internal Control Gene RP to Monitor the Entire Process from Nucleic Acid Extraction to PCR Amplification and Prevent False Negatives
- Diverse Target Combination Formats to Meet Varied Application Needs
- The Pathogen Spectrum Better Aligns with Surveillance Protocol Requirements
- High Sensitivity for Excellent Detection of Low-Abundance Samples

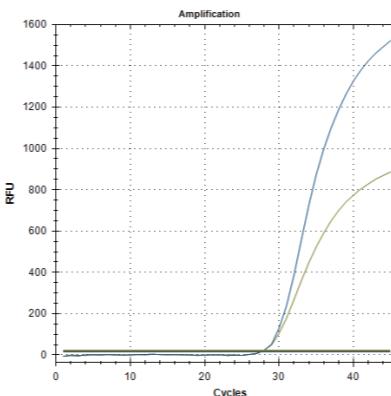


Figure 1 Dual Real-Time Fluorescent PCR Detection Results for Measles Virus/Rubella Virus

Table VI

No.	Item No.	Product Name	Spec.	CE Classification
1	A3161YH	Real-Time PCR Kit for Detection of Measles Virus	25T/50T	
2	A3171YH	Real-Time PCR Kit for Detection of Rubella Virus	25T/50T	
3	A2332YH	Multiple Real-Time PCR Kit for Detection of Measles Virus and Rubella Virus	25T/50T	
4	A6163YH	Multiple Real-Time PCR Kit for Detection of Measles Virus, Rubella Virus and Mumps Virus	25T/50T	
5	A2010YH	Real-time PCR Detection Kit for Varicella-Zoster	25T/50T	Class C
6	D2361YH	Real-time PCR Detection Kit for Monkeypox Virus	25T/50T	Class C
7	D6712YH	Multiple Real-Time PCR Kit for Detection of Clade Ia/ Ib Monkeypox Virus	25T/50T	
8	D6725YH	Multiple Real-Time PCR Kit for Detection of Clade I/IIa/ Ib Monkeypox Virus	25T/50T	

## Rapid Screening Protocol for Fever with Hemorrhagic Syndrome

### 01. Series of Nucleic Acid Detection Kits for Common Zoonotic Pathogens

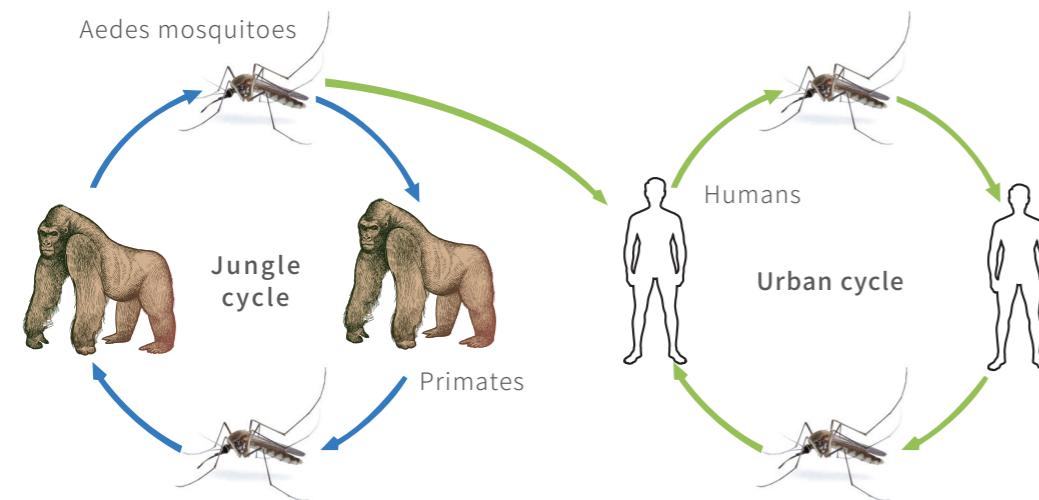
Zoonotic diseases are infectious diseases that jump from non-human animal sources to humans. The pathogens of zoonotic diseases can be bacteria, viruses, or parasites, and may also involve unconventional vectors, which can be transmitted to humans through direct contact or via food, water, or the environment. Given our close relationship with animals in agricultural work, companionship, and the natural environment, animals pose a significant global public health concern. Zoonotic diseases can also disrupt the production and trade of animal products used for food and other purposes.

We have developed a diverse range of real-time fluorescent PCR nucleic acid detection kits, which enable the rapid and effective screening and identification of viruses, bacteria, and other pathogens involved in zoonotic diseases, providing solutions for the monitoring of public health emergencies and infectious disease outbreaks.



Table VII

No.	Item No.	Product Name	Spec.	CE Classification
1	A5091YH	Real-Time PCR Kit for Detection of Brucella	25T/50T	
2	A5391YH	Real-Time PCR Kit for Detection of Bacillus Anthracis	25T/50T	
3	D1902YH	Multiple Real-Time PCR Kit for Detection of Streptococcus suis serotype 1 and 2	25T/50T	
4	A9483YH	Multiple Real-Time PCR Kit for Detection of mrp/ef/sly virulence genes of Streptococcus suis	25T/50T	
5	D1701YH	Real-Time PCR Kit for Detection of Chlamydia Psittaci	25T/50T	
6	D1551YH	Real-Time PCR Kit for Detection of Rabies virus	25T/50T	
7	D7811YH	Real-Time PCR Kit for Detection of Echinococcus	25T/50T	



## 02. Series of Nucleic Acid Detection Kits for Vector-borne Pathogens

Vector-borne diseases are primarily transmitted by arthropod vectors or animal carriers such as rodents. Notable examples of these clinically significant infections include dengue virus, Zika virus, yellow fever virus, Japanese encephalitis virus, chikungunya virus, West Nile virus, Rift Valley fever virus, and tick-borne encephalitis virus.

We have overcome multiple limitations of traditional detection methods and developed a diverse range of pathogen detection kits based on real-time fluorescent PCR technology. These kits directly detect pathogen nucleic acids, facilitating etiological diagnosis and enabling the accurate and rapid screening and identification of such diseases. The kits provide reliable monitoring solutions for institutions like Centers for Disease Control and Prevention (CDC) and port inspection and quarantine agencies to respond to outbreaks.

## Comprehensive Screening Protocol for Vector-borne Infectious Diseases



Table VIII

No.	Item No.	Product Name	Spec.	CE Classification
1	A2961YH	Real-time PCR Detection Kit for Zika	25T/50T	Class C
2	A3351YH	Real-time PCR Detection Kit for Yellow Fever	25T/50T	Class C
3	A3751YH	Real-Time PCR Detection Kit for Universal Plasmodium Falciparum	25T/50T	Class C
4	A3741YH	Real-time PCR Detection Kit for Plasmodium Falciparum	25T/50T	Class C
5	A3711YH	Real-time PCR Detection Kit for Plasmodium Malariae	25T/50T	Class C
6	A3721YH	Real-time PCR Detection Kit for Plasmodium Vivax	25T/50T	Class C
7	A3731YH	Real-time PCR Detection Kit for Plasmodium Ovale	25T/50T	Class C
8	A3801YH	Real-Time PCR Detection Kit for Universal Dengue	25T/50T	Class C
9	A3761YH	Real-time PCR Detection Kit for Dengue Type I	25T/50T	Class C
10	A5874YH	Multiple Real-time PCR Detection Kit for Dengue Fever Type I / II / III / IV	25T/50T	Class C
11	A3811YH	Real-Time PCR Kit for Detection of West Nile Virus	25T/50T	
12	A3831YH	Real-time PCR Detection Kit for Chikungunya	25T/50T	Class C
13	D9733QH	Multiple Real-Time PCR Kit for Detection of West African / East Central South African / Asian Chikungunya Virus	25T/50T	
14	D2161YH	Real-Time PCR Kit for Detection of Sindbis virus	25T/50T	
15	D2601YH	Real-Time PCR Kit for Detection of Bartonella	25T/50T	

Table VI

No.	Item No.	Product Name	Spec.	CE Classification
16	D3321YH	Real-Time PCR Kit for Detection of Leishmania	25T/50T	
17	A5101YH	Real-Time PCR Kit for Detection of Japanese Encephalitis	25T/50T	
18	A5643YH	Multiple Real-time PCR Detection Kit for Yellow Fever/Zika/Chikungunya	25T/50T	Class C
19	A9693YH	Multiple Real-Time PCR Kit for Detection of Dengue Virus, Zika Virus and Chikungunya Virus	25T/50T	
20	A7923YH	Multiple Real-Time PCR Kit for Detection of Yersinia pestis caf1/pla/chro392 genes	25T/50T	
21	A5841YH	Real-Time PCR Kit for Detection of hemorrhagic fever with renal syndrome Hantavirus	25T/50T	
22	A3821YH	Real-time PCR Detection Kit for Rift Valley Fever	25T/50T	Class C
23	D3331YH	Real-Time PCR Kit for Detection of Seoul virus	25T/50T	
24	D1272YH	Multiple Real-Time PCR Kit for Detection of Hantaan virus /Seoul virus	25T/50T	
25	D1861YH	Real-Time PCR Kit for Detection of Rickettsia mooseri	25T/50T	
26	D1891YH	Real-Time PCR Kit for Detection of Leptospira	25T/50T	
27	A7241YH	Real-Time PCR Kit for Detection of Russian Spring-summer Encephalitis Virus	25T/50T	
28	A9041YH	Real-time PCR Detection Kit for Novel Bunyavirus	25T/50T	Class C
29	D7851YH	Real-Time PCR Kit for Detection of Ehrlichia chaffeensis	25T/50T	
30	D1871YH	Real-Time PCR Kit for Detection of Borrelia burgdorferi	25T/50T	
31	D3511YH	Real-Time PCR Kit for Detection of Marburg virus	25T/50T	
32	D3491YH	Real-Time PCR Kit for Detection of Ebola virus	25T/50T	
33	D2571YH	Real-Time PCR Kit for Detection of Orientia tsutsugamushi	25T/50T	
34	A2532YH	Duplex Real-Time PCR Diagnostic Kit for Rapid Detection of Ebola-Zaire	25T/50T	Class D without Common Specification
35	D2571CYH	Real-Time PCR Kit for Detection of Orientia tsutsugamushi	25T/50T	
36	A5994YH	Multiple Real-time PCR Detection Kit for Dengue / Marburg / Rift Valley Fever / Lassa	25T/50T	
37	D9832YH	Multiple Real-Time PCR Kit for Detection of Chikungunya Virus and Dengue Virus	25T/50T	

## Series of Rapid Screening Protocols for Other Diseases

### 01. Series of Nucleic Acid Detection Kits for Encephalitis and Meningitis

Encephalitis and meningitis refer to a group of acute-onset infectious diseases of the central nervous system, primarily characterized by clinical manifestations of brain or meningeal inflammation. These conditions predominantly affect children under the 15, and are associated with high mortality and disability rates, resulting in a substantial disease burden. They frequently lead to varying degrees of neurological sequelae, posing a significant impact on public health and population well-being. According to World Health Organization estimates, there are approximately 200,000 cases of viral encephalitis annually. Additionally, about 125,000 infants and young children die from bacterial meningitis each year, with disability rates reaching as high as 25%–50%.

Table IX

No.	Item No.	Product Name	Spec.	CE Classification
1	D1291YH	Real-Time PCR Diagnostic Kit for Rapid Detection of N. meningitidis	25T/50T	
2	A7192YH	Multiple Real-Time PCR Diagnostic Kit for Rapid Detection of N. meningitidis ctrA gene and sodC gene	25T/50T	

### 02. Series of PCR Detection Kits for Antimicrobial Resistance Genes

Bacterial resistance refers to the property of strains to tolerate antibiotics. Resistant strains harbor resistance factors at the genetic level, such as gene mutations or acquired resistance genes. As the world's largest producer and consumer of antibiotics, China has a per capita consumption of 138 grams, with an alarmingly high rate of irrational clinical antimicrobial use reaching 90%. In a sense, the overuse of antibiotics has driven the emergence of bacterial resistance. In recent years, the situation of bacterial resistance has become extremely severe, and the post-antibiotic era of "no effective drugs available" poses a serious threat to human health.

Table X

No.	Item No.	Product Name	Spec.	CE Classification
1	A7388YH	Multiplex PCR Diagnostic Kit for Rapid Identification of Drug-resistance Gene of Polymyxin	25T/50T	Class C
2	A513LYH	Multiplex PCR Diagnostic Kit for Rapid Identification of Drug-resistance Gene of Salmonella	25T/50T	Class C
3	A2953YH	Multiple Real-Time PCR Detection Kit for Carbapenem-resistant Gene	25T/50T	Class C
4	A2942YH	Duplex Real-time PCR Detection Kit for Superbacteria (MRSA)	25T/50T	Class C

### 03. Series of PCR Detection Kits for Sexually Transmitted Diseases

Sexually transmitted diseases (STDs) represent a critical global public health issue, posing threats not only to individual health but also leading to serious socioeconomic implications.

Mycoplasma genitalium may serve as an etiological agent in cervicitis, endometritis, pelvic inflammatory disease, male reproductive tract infections, and tubal factor infertility. *Neisseria gonorrhoeae* is the causative pathogen of gonorrhea, commonly infecting sites such as the urethra, cervix, rectum, pharynx, and eyes. It exhibits high genetic variability, enabling evasion of host immune responses through genetic recombination and mutation, which complicates both treatment and prevention of gonorrhea. *Chlamydia trachomatis* is an obligate intracellular pathogen primarily responsible for non-gonococcal urethritis, cervicitis, and pelvic inflammatory disease. Infection with *C. trachomatis* is highly prevalent among sexually active populations, particularly in young adults.

AIDS (Acquired Immunodeficiency Syndrome) is a systemic disease caused by the Human Immunodeficiency Virus (HIV). Common types include HIV-1 and HIV-2, with HIV-1 being the predominant strain in China. HIV primarily targets the human immune system. Untreated individuals in advanced stages are susceptible to severe opportunistic infections and malignancies, ultimately leading to mortality. Key high-risk populations include men who have sex with men, intravenous drug users, individuals with sexual contact to HIV/AIDS patients, those with multiple sexual partners, and groups with other sexually transmitted infections (STIs).

**Table XI**

No.	Item No.	Product Name	Spec.	CE Classification
1	D3671YH	PCR-based <i>Neisseria Gonorrhoeae</i> Test Kit (Fluorometric PCR)	25T/50T	Class C
2	D2393YH	Multiple Real-Time PCR Diagnostic Kit for Rapid Detection of <i>Neisseria gonorrhoeae</i> / <i>Mycoplasma genitalium</i> / <i>Chlamydia trachomatis</i>	25T/50T	
3	D6331YH	Real-Time PCR Kit for Detection of Human Immunodeficiency Virus Type I (HIV-1)	25T/50T	



## Development History

