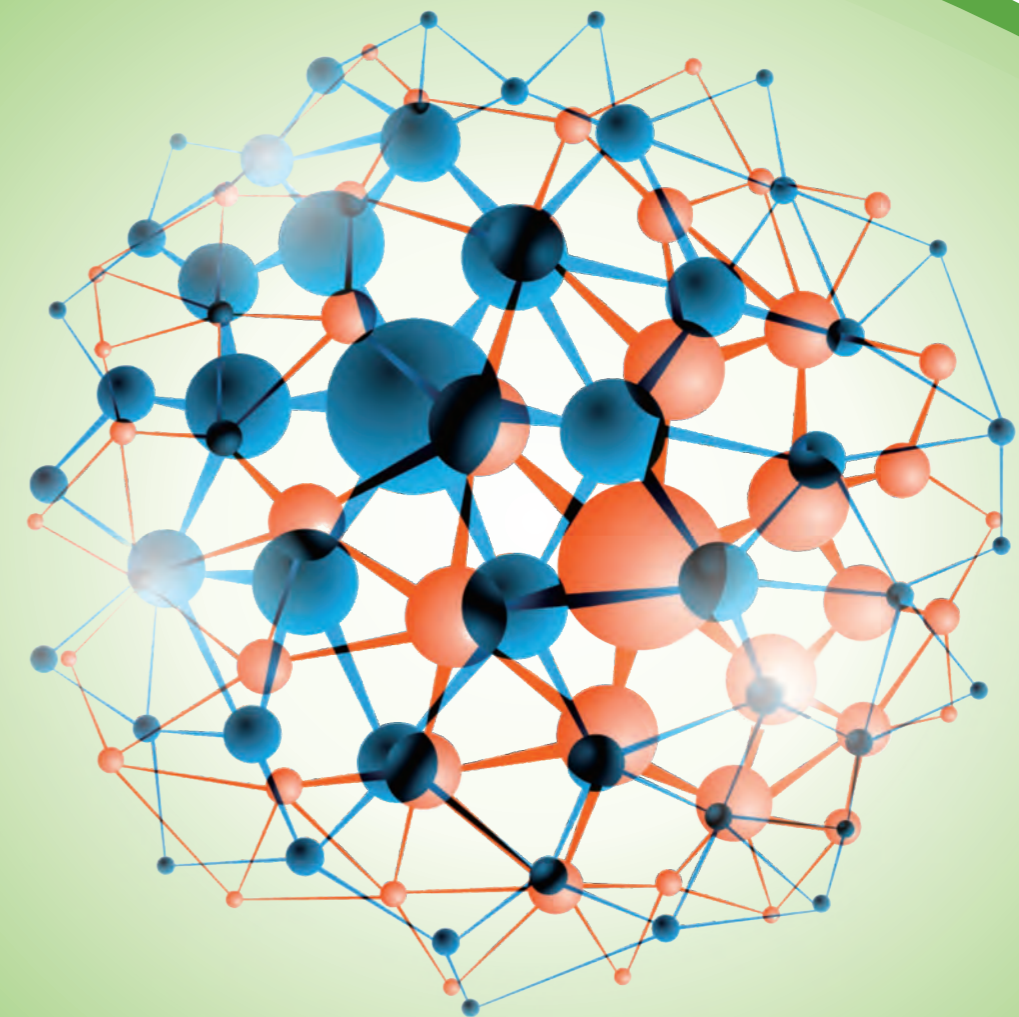
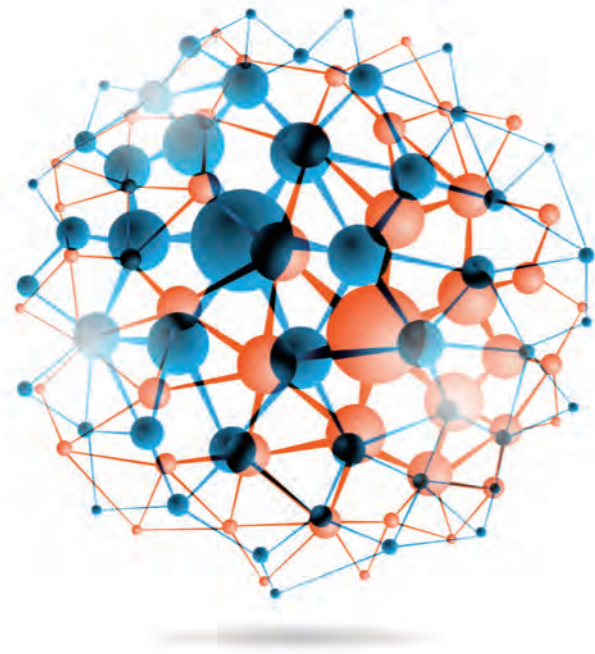


Molecular Diagnostics Products and Service

Version 2020-2021

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DaAnGene

Decode Genetic Life. Assure Human Health.

Molecular Diagnostics Products and Service

Version 2020-2021

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Introduction

Da An Gene(Da An Gene Co., Ltd. Of Sun Yat-sen University), is a high-tech enterprise oriented in molecular diagnostic techniques. DaAn Gene Co., Ltd. of Sun Yat-sen University was established in 1993 and was listed on the Shenzhen Stock Exchange(SZSE Code: 002030) on August 9, 2004.

Since its first day of establishing, Da An Gene has dedicated to be the in-vitro diagnostics Leader. With the certificate of GMP and ISO 13485, Da An Gene is consistently committed to R&D, production and service of in-vitro diagnostics. DaAn Gene also obtained the medical reagents and instruments production and operation licenses from NMPA.

Nowadays, Da An Gene has set up a distribution network covering all mainland of China, and the products scale are extending to overseas. Da An Gene will keep carrying out the mission of "Decode Genetic Life, Assure human health" by adhering to the value philosophy "To Share is To Enjoy" and offer the best solution of molecular diagnostics to the world.

2019 Novel Coronavirus(2019-nCoV) Detection Kits

Double targets labeled

Endogenous internal standard control

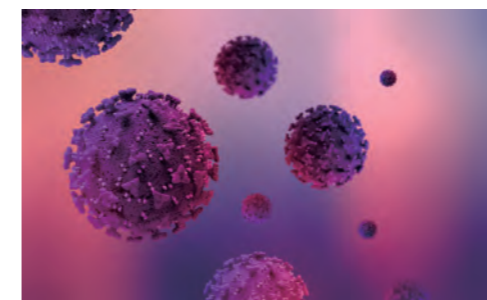
Detection Kit for 2019-nCoV(PCR-Fluorescence)

Registration No.: 20203400749

Detection Kit for 2019 Novel Coronavirus (2019-nCoV) RNA (PCR-Fluorescence Probing)

Registration No.: 20203400063

Intended for use of 2019 Novel Coronavirus RNA Detection kit



- In order to better stop the epidemic situation of 2019 Novel Coronavirus wide spreading, DAAN GENE company developed the 2019-nCoV RNA detection kit, aiming to supply timely and effective detection service to extensive medical organizations.
- This kit can detect ORF1ab and N gene simultaneously, endogenous internal standard can monitor the experiment from sampling process, assess the sampling qualified or not(exogenous internal standard do not have this advantage), and monitor the occurrence of false negative effectively, assisting early clinical diagnostic, early treatment.

Product information

- Intended for use: in vitro qualitative RNA detection of 2019-nCoV.
- Package spec: 48 tests/kit, 96 tests/kit.
- Main components: PCR reaction solution, negative & positive controls, internal standard, etc.
- Applicable instruments: ABI 7500, LightCycler 480, AGS4800, etc.
- Applicable sample: throat swabs, bronchoalveolar lavage fluid(BALF) and sputum.

Product characteristics	Performance
Validity period	-20±5°C ,6 month
Amplification sample volume	5µl
Detection sensitivity	LOD: 500 copies/ml
Detection precision	CV < 5%
Cross reaction	No cross reaction with other pathogens of the same infection site or similar infection symptom.

Product advantages

Product certification: we have obtained WHO, NMPA, CE and FSC.

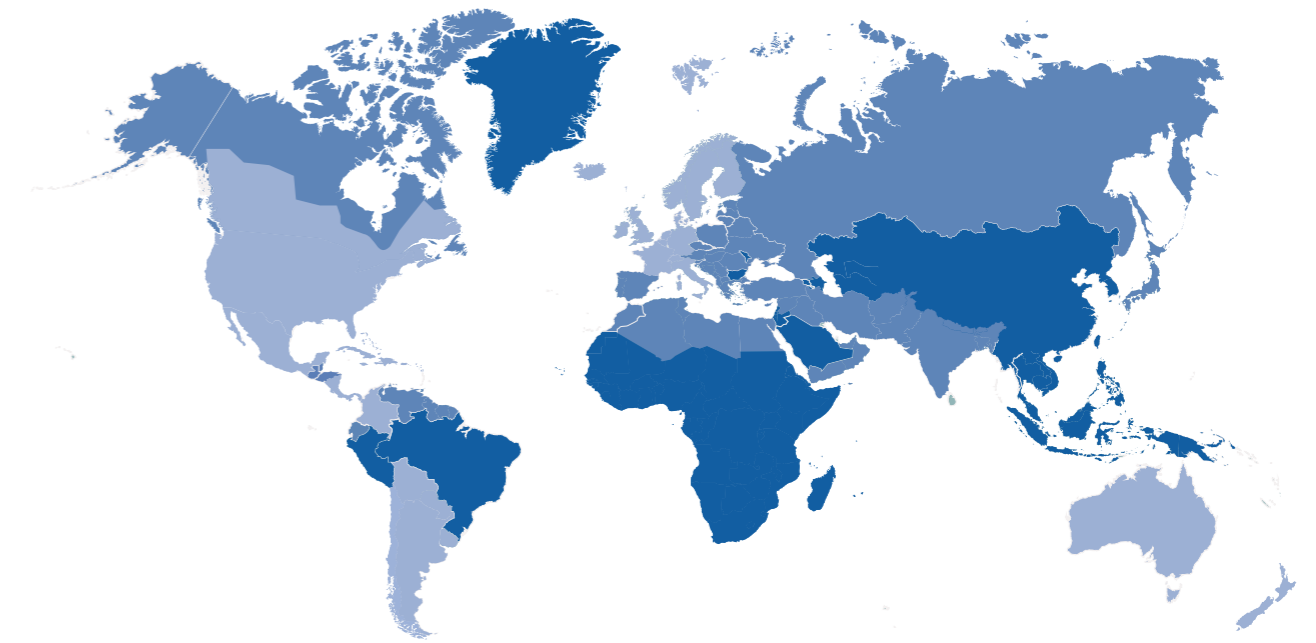


Hepatitis Virus

Background

Hepatitis refers to an inflammatory condition of the liver. Hepatitis virus is the pathogen which could cause viral hepatitis. There are several types of hepatitis viruses including types A, B, C, D, E, and possibly G. Types A, B, and C are the most common. All hepatitis viruses can cause acute hepatitis. Viral hepatitis types B

and C can cause chronic hepatitis. Symptoms of acute viral hepatitis include fatigue, flu-like symptoms, dark urine, light-colored stools, fever, and jaundice. The symptoms of chronic viral hepatitis often are mild and nonspecific, and the diagnosis of chronic hepatitis often is delayed.



HBsAg prevalence
 ■ ≥8%=high
 ■ 2%-7%=intermediate
 ■ <2%=low

Geographic distribution of chronic hepatitis B virus (HBV) infection - worldwide, 2006
 Source: CDC. Travelers'health; yellow book. Atlanta, GA: US Department of Health and Human Service, CDC; 2008.

The real-time PCR kits for detecting the hepatitis virus developed by DaAn Gene can detect the nucleic acid of hepatitis virus more accurate with high specificity. The kits take the high conserved region in hepatitis virus as a target region to design specific primers and fluorescent probe. Besides, the kit is equipped with internal control, which can supervise the whole process

of experiment and prevent false negative result. The kits is suitable for the quantitative detection of hepatitis virus in sample of human serum or plasma. The kit is suitable for auxiliary diagnosis of hepatitis virus infection and monitoring the therapeutic effect of drug in patients.



Products

Product Description	Target	Specimen	LOD*
Hepatitis B Virus PCR Diagnostic Kit	DNA	Serum or plasma	1.0×10^2 IU/ml
Hepatitis C Virus PCR Diagnostic Kit	RNA		2.5×10^2 IU/ml
Hepatitis E Virus PCR Diagnostic Kit	RNA		1.0×10^3 copies/ml

*LOD: Limit of detection

Results

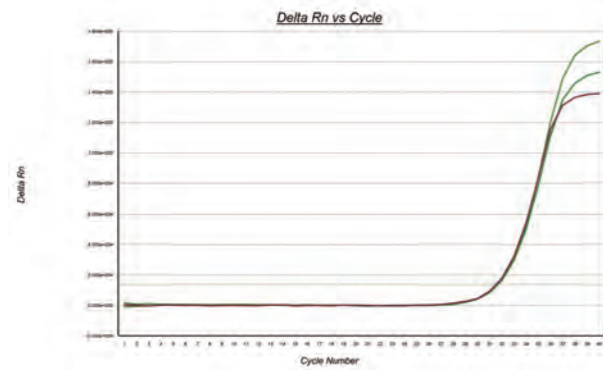


Fig.1. Sensitivity of HBV Real-time PCR Kit

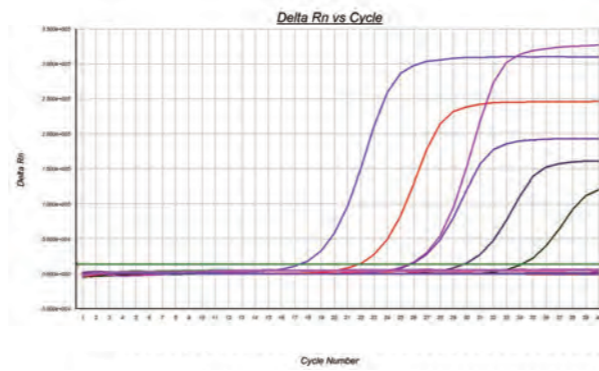


Fig.2. Specificity of HBV Real-time PCR Kit

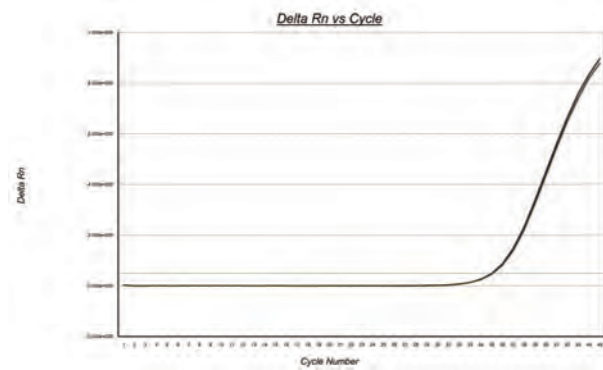


Fig.3. Sensitivity of HCV Real-time PCR Kit

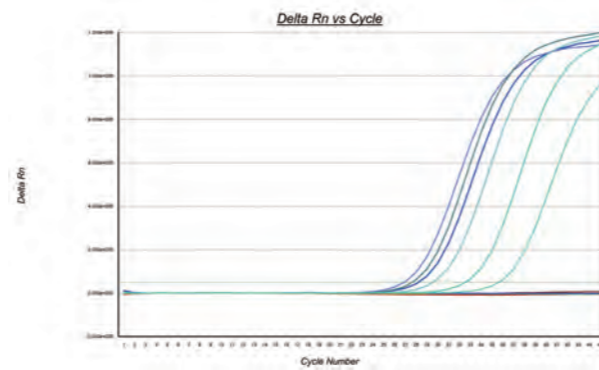


Fig.4. Specificity of HCV Real-time PCR Kit

Human Immunodeficiency Virus

Background

Human Immunodeficiency Virus is a lentivirus that cause HIV infection and over time acquired immunodeficiency syndrome (AIDS). AIDS is a condition in humans in which progressive failure of the immune system allows life-threatening opportunistic infections and cancers to thrive. Infection with HIV occurs by the transfer of blood, semen, vaginal fluid, pre-ejaculate, or breast milk.

Though AIDS can be controlled efficiently with development of medical technologies, AIDS can not be cured totally and there is no effective vaccine. Thus, the

experimental diagnosis for HIV infection is the important part for preventing and controlling HIV infection. Only the infection source can be found can AIDS be controlled efficiently. It is important to cure related disease and deal with precaution if HIV infection is diagnosed earlier.

The real-time PCR kits for detecting the HIV developed by DaAn Gene could applies to supervise the therapeutic effect of the auxiliary diagnosis for HIV type 1 infection and the drug therapy of HIV type 1 infected patients.

Products

Product Description	Target	Specimen	LOD*
Human Immunodeficiency Virus Type 1 PCR Diagnostic Kit	RNA	Serum or plasma	1.0×10^2 IU/ml

*LOD: Limit of detection

Results

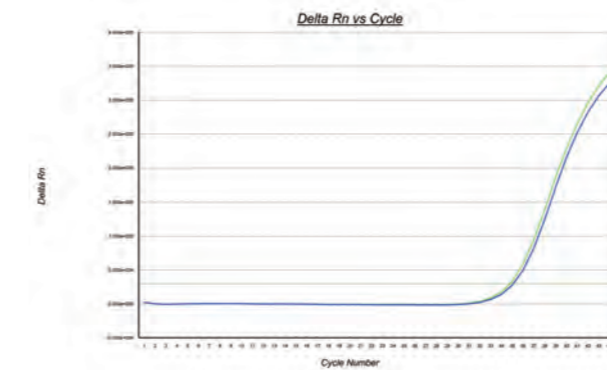


Fig.1. Sensitivity of HIV-1 Real-time PCR Kit

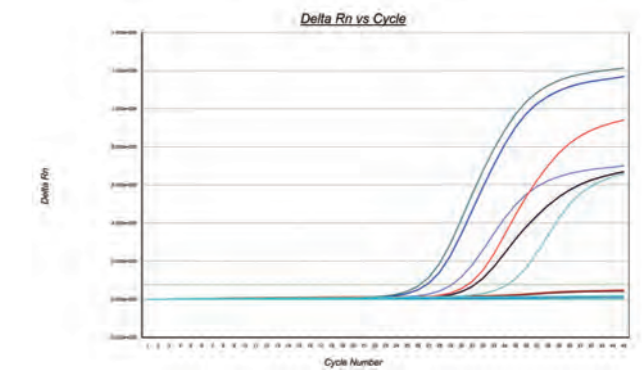


Fig.2. Specificity of HIV-1 Real-time PCR Kit

Blood Screening

Background

Blood screening is a laboratory analysis performed on a blood sample that is usually extracted from a vein in the arm using a needle, or via fingerprick. To prevent the cross infection of virus between different blood sample and to ensure the health of workers for collecting and making blood, we must prevent the infected people from entering into the blood-supply source. To prevent the positive blood with disease pathogen from transfusion or production of blood products, we must use the best quality and most reliable diagnostic reagent for screening the blood donors and their blood sample.

HBV, HCV and HIV-1 are the main pathogens for infectious diseases to threaten blood safety. The sensitivity of serological analysis is improved, thus, the danger that HBV, HCV and HIV-1 are transmitted in blood transfusion is largely reduced, but not completely eradicated. The missing test in "window period" is the bottleneck for the further improvement of blood safety currently. For the screening of blood donor, the pure serological test of antigen or antibody

can not guarantee the blood safety effectively.

DaAn Gene provides PCR-based nucleic acid tests and automation that enable labs and hospital in worldwide to deliver safer blood and related products. Based on fluorescent PCR/RT-PCR amplification test technology, the test kit is hereof used for testing nucleic acid for HBV, HCV and HIV-1 in serum and plasma sample, and for blood screening. The nucleic acid-based test technology can detect viral nucleic acid more early than the antibody-based test technology. The nucleic acid test of high sensitivity, the slight trace of nucleic acid can be detected in the samples and the detection will be realized in a few days after virus infection. Therefore, "window period" is largely shortened. In addition, the infected blood, which is missed in test as the result of virus variation, immunity silence infection and manual misoperation, will be detected through nucleic acid test. DaAn Gene's nucleic acid test can prevent the transmission of viral infections in blood transfusion to minimize the danger of disease transmission in blood transfusion.

Products

Product Description	Target	Specimen	LOD*
Hepatitis B Virus / Hepatitis C Virus / Human Immunodeficiency Virus Type 1 PCR Diagnostic Kit	DNA & RNA	Serum or plasma	1.0×10^2 IU/ml (single sample of HBV / HCV / HIV-1) 5.0×10^2 IU/ml (mixed sample of HBV / HCV / HIV-1)

*LOD: Limit of detection

Results

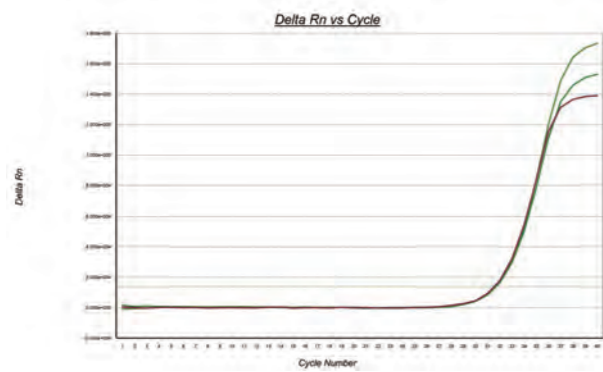


Fig.1. Sensitivity of HBV Blood Screening Real-time PCR Kit

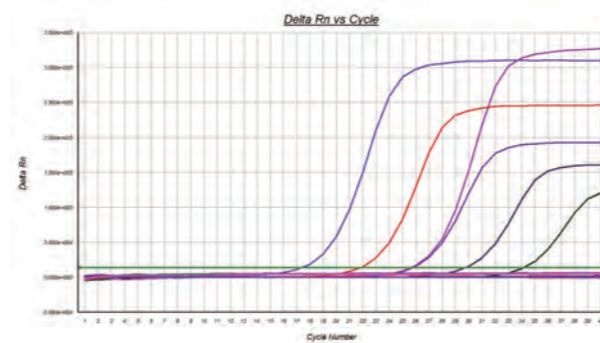


Fig.2. Specificity of HBV Blood Screening Real-time PCR Kit

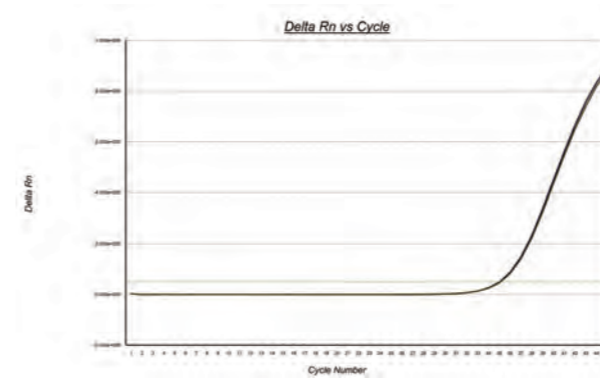


Fig.3. Sensitivity of HCV Blood Screening Real-time PCR Kit

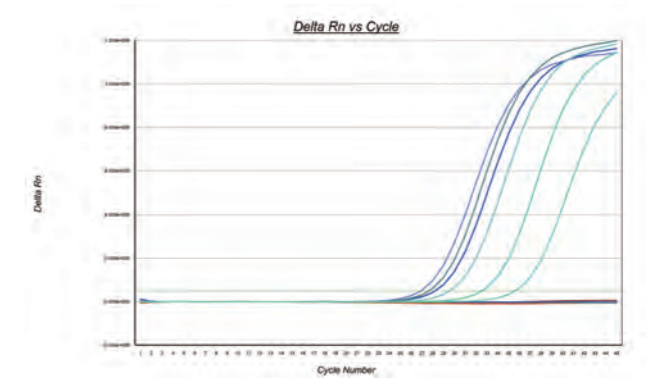


Fig.4. Specificity of HCV Blood Screening Real-time PCR Kit

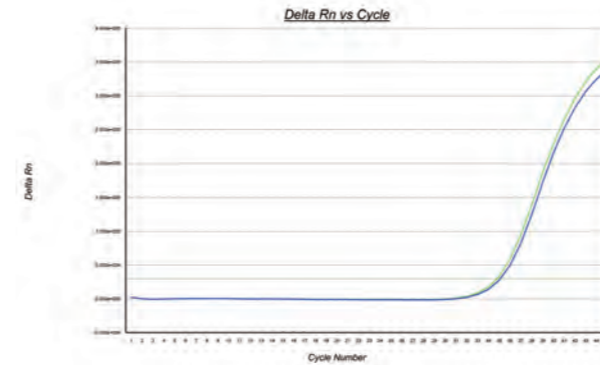


Fig.5. Sensitivity of HIV-1 Blood Screening Real-time PCR Kit

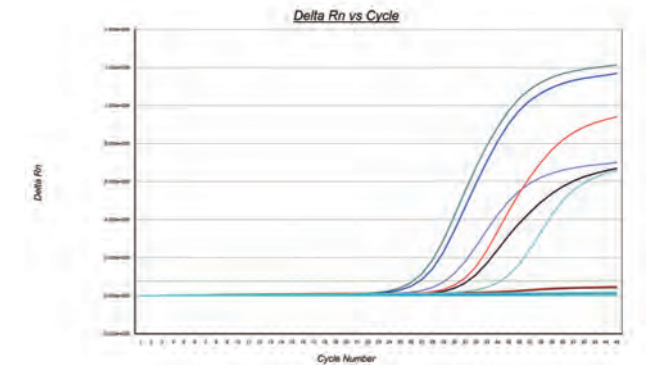


Fig.6. Specificity of HIV-1 Blood Screening Real-time PCR Kit

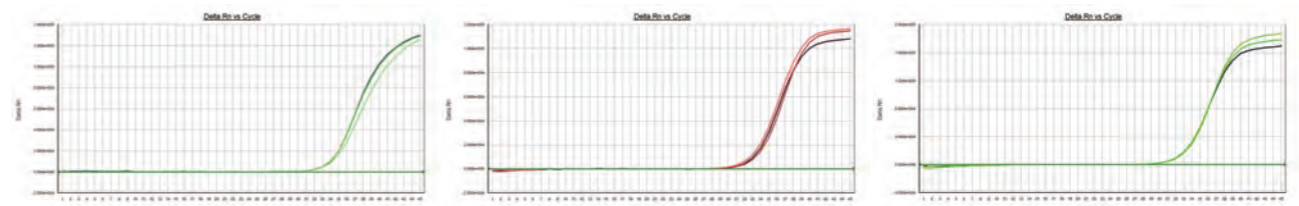


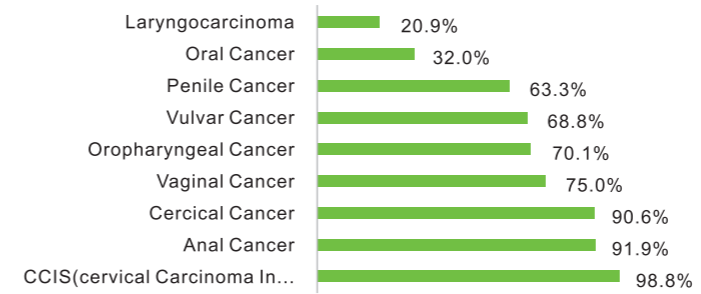
Fig.7. Internal Control of HBV, HCV, and HIV-1 Blood Screening Real-time PCR Kit

Human Papilloma virus (HPV)

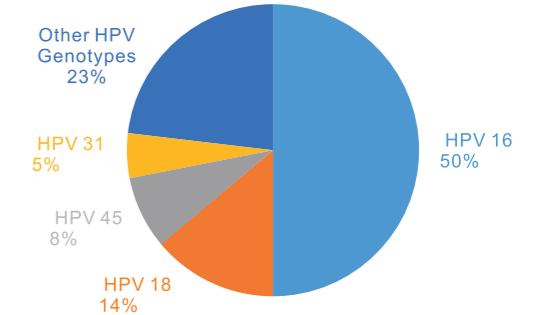
Background

HPV (human papillomavirus) is a virus that infects the skin and the cells lining body cavities. It is spread through close skin-to-skin contact. For most people, the infection will get better on its own and they will never know they had it. But in some people the infection will stay around for a long time and become persistent. There are hundreds of different types of HPV. Most are harmless. But around 13 types of HPV can

cause cancer. These are called "high-risk" types. People with persistent infections with "high-risk" HPV types are those who are most likely to go on to develop cancer. Approximately 275,000 women die every year from cervical cancer. But cervical cancer is the only one currently that can be found and prevented in the early phase, can be cured 100%, is expected to wipe out cancer.

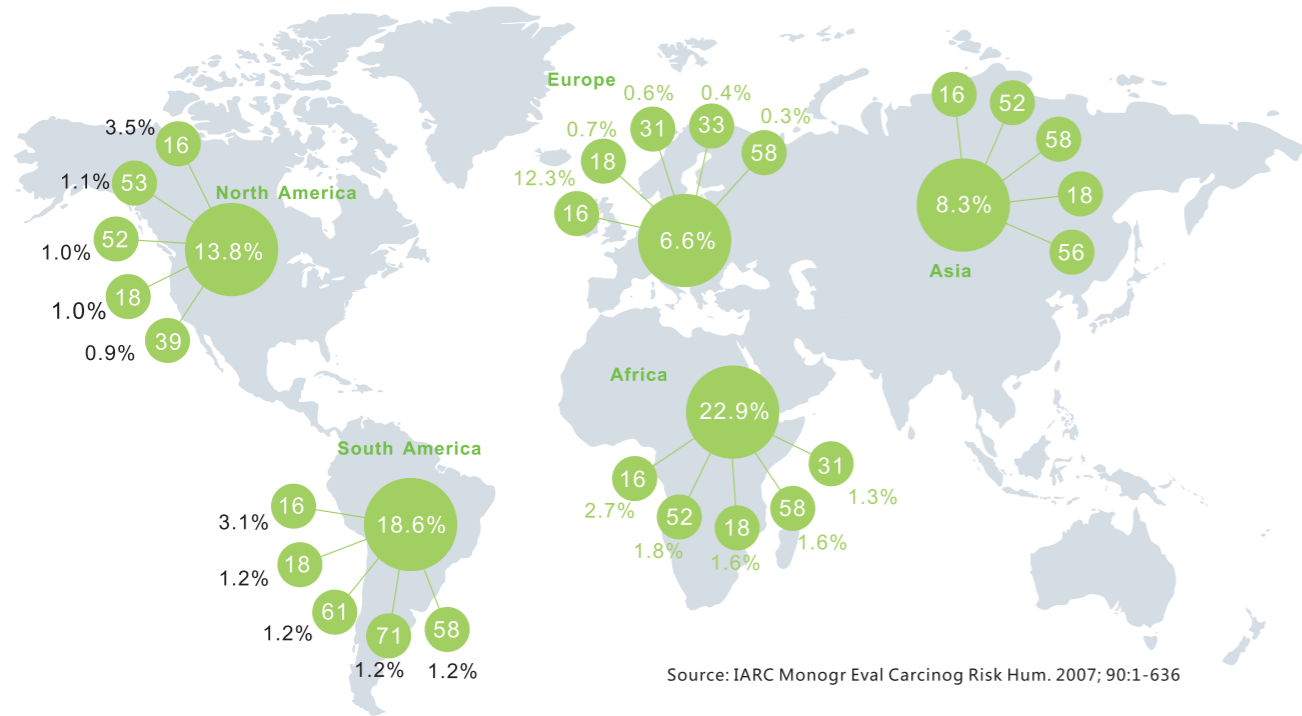


The Distribution of HPV in Different Cancer



Source: Bosch FX, et al. JNCI 1995

Source: Saralya M. Et al. US assessment of HPV types in cancer: Implications for current and 9-valent HPV vaccines[J]. Journal of National Cancer Institute. 2015, 107(6): djv086



Source: IARC Monogr Eval Carcinog Risk Hum. 2007; 90:1-636

Products

Product Description	Genotypes	Specimen	LOD*
Human Papillomavirus Types 6 And 11 Fluorescent Polymerase Chain Reaction Diagnostic Kit	6,11	Cotton swab with genitourinary secreta	5.0x10 ² copies/ml
Human Papillomavirus Types 16 And 18 Fluorescent Polymerase Chain Reaction Diagnostic Kit	16,18	Smear of genital tract	1.0x10 ⁴ copies/ml
High-Risk Human Papillomavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	16,18,31,33,45,52,56, 58	Biopsy specimen	

*LOD: Limit of detection

Results

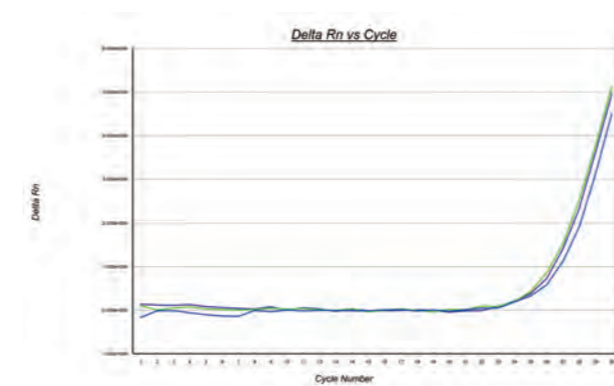


Fig.1. Sensitivity of HPV Genotypes 6, 11 Real-time PCR Kit

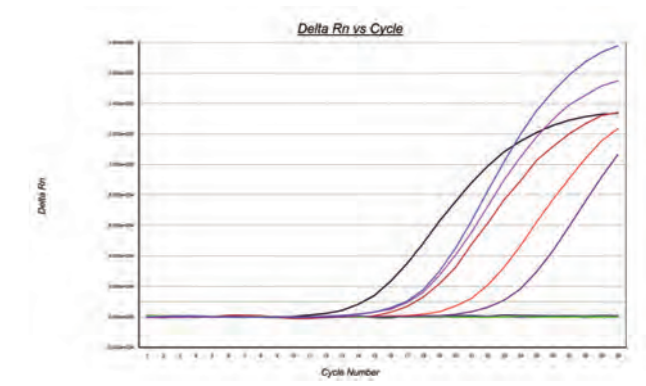
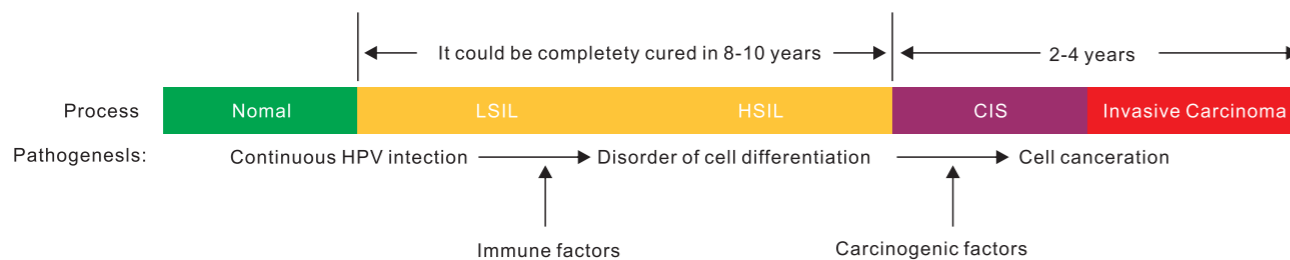


Fig.2. Specificity of HPV Genotypes 6, 11 Real-time PCR Kit

Cervical Cancer Development



Human Papillomavirus (HPV)

Human Papillomavirus (HPV)

Sexually Transmitted Infections (STIs)

Background

Sexually transmitted infections (STIs), also referred to as sexually transmitted diseases (STD) and venereal diseases (VD), are infections that are commonly spread by sex. Most STIs initially do not cause symptoms. This results in a greater risk of passing the disease on to others. STIs acquired before or during birth may result in poor outcomes for the baby. Some STIs may cause

problems with the ability to get pregnant.

Real-time PCR is a highly sensitive, rapid, precise diagnostic method for detection of STIs, which could help the doctor or researcher to get the quantitative results and determine the patients' status and possibility of transmission.

Products

Product Description	Target	Specimen	LOD*
Neisseria Gonorrhoeae PCR Diagnostic Kit	DNA	Urogenital secretion	5.0×10^2 copies/ml
Chlamydia Trachomatis PCR Diagnostic Kit	DNA		5.0×10^2 copies/ml
Ureaplasma Urealyticum PCR Diagnostic Kit	DNA		1.0×10^4 copies/ml
Treponema Pallidum PCR Diagnostic Kit	DNA		5.0×10^2 copies/ml

*LOD: Limit of detection

Results

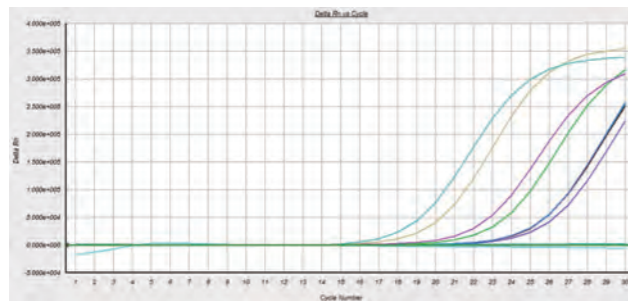


Fig. 1. Specificity of UU Real-time PCR Kit

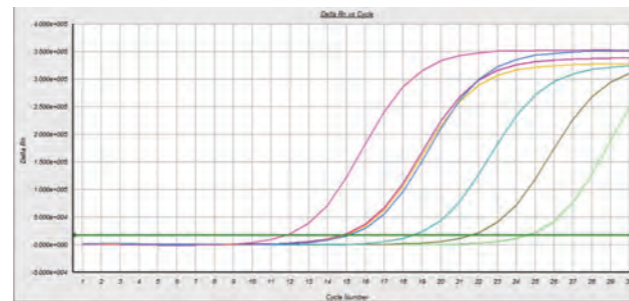


Fig. 2. Repeatability of UU Real-time PCR Kit

Respiratory Pathogen

Background

Respiratory pathogen is a medical term that encompasses pathological conditions affecting the organs and tissues that make gas exchange possible in higher organisms. Some respiratory diseases could cause life-threatening entities like bacterial pneumonia and lung cancer.

The real-time PCR kits for detecting the nucleic acid of respiratory pathogen developed by DaAn Gene, could assist in the diagnosis of respiratory diseases infection, and monitor the therapeutic effect of drug. Comparing with the traditional methods, real-time PCR are more accurate, faster and reliable.

Products

Product Description	Target	Specimen	LOD*
Mycobacterium Tuberculosis Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Sputum Peripheral blood	5.0×10^2 copies/ml
Mycoplasma Pneumonia Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Sputum Lung/bronchoalveolar Lavage fluid Throat swab	1.0×10^4 copies/ml
Chlamydia Pneumoniae Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA		1.0×10^4 copies/ml
Legionella Pneumophila Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA		1.0×10^3 copies/ml
Streptococcus Pneumoniae Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA		
Respiratory Syncytial Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Nasopharyngeal secretion	1.0×10^3 PFU/ml
Human Bocavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA		
Adenovirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Faeces	1.0×10^3 copies/ml

Results

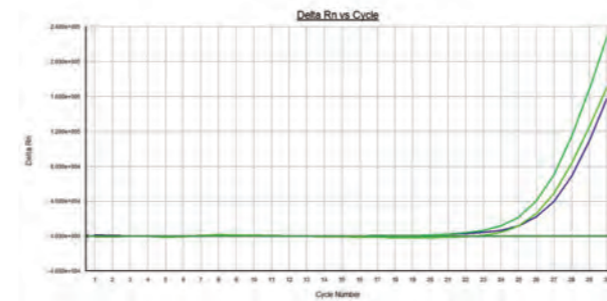


Fig.2. Specificity of MTB Real-time PCR Kit

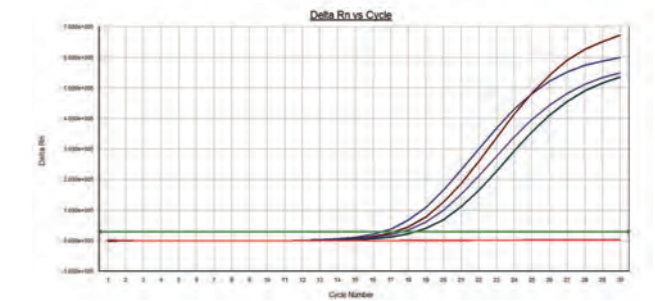


Fig.1. Sensitivity of MTB Real-time PCR Kit

Digestive Pathogen

Background

Digestive pathogen is a general definition for a group of virus which inhabit in the intestinal tract, and there are some common ground in the biochemical characteristics, epidemiology and nosogenesis of the viruses. The diseases caused by digestive pathogen is very extensive, and different virus may causes the same symptom. The typical symptoms includes herpangina, hand-foot-and-mouth disease and aseptic meningitis,

etc. More serious diseases includes myocarditis, pericarditis, viral meningitis and limb paralysis syndrome, etc.

The real-time PCR kits for detecting the nucleic acid of Digestive pathogen developed by DaAn Gene, could assist in the diagnosis of intestinal tract diseases infection with more accurate, faster and reliable results.

Products

Product Description	Target	Specimen	LOD*
Helicobacter Pylori Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Gastric mucosa biopsy specimen	1.0×10^3 copies/ml
Norwalk Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA	Food of shellfish Faeces from patients	1.0×10^3 copies/ml
Human Parvovirus B19 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Serum/plasma	1.0×10^2 copies/ml
Campylobacter Jejuni Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Water/food	1.0×10^3 copies/ml
Shigella Spp. Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Faeces/cloacal swab	1.0×10^2 copies/ml
Enterovirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA	Faeces Throat swab Fluid of herpes	5.0×10^2 copies/ml
Enterovirus 71 Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA		1.0×10^3 PFU/ml
Coxsackievirus A16 Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA		1.0×10^3 PFU/ml
Enterovirus 71 / Coxsackievirus A16 PCR Diagnostic Kit	RNA	Faeces / Throat swab Cloacal swab	1.0×10^3 copies/ml
Vibrio Cholerae Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Aquatic products and their processing products /Faeces	1.0×10^3 copies/ml
Vibrio Cholerae O139 Serogroup Diagnostic Kit	DNA	Aquatic products and their processing products	1.0×10^3 copies/ml
Vibro Cholerae CTX Gene PCR Diagnostic Kit	DNA		1.0×10^3 copies/ml
Coxsackievirus A24v PCR Diagnostic Kit	RNA	Faeces/Throat swab Fluid of herpes	1.0×10^2 PFU/ml
Group A Of Rotavirus/Norwalk-like Virus PCR Diagnostic Kit	RNA	Food of shellfish Faeces from patients	1.0×10^2 copies/ml
Group B Rotavirus PCR Diagnostic Kit	RNA	Faeces	1.0×10^3 copies/ml

*LOD: Limit of detection

Results

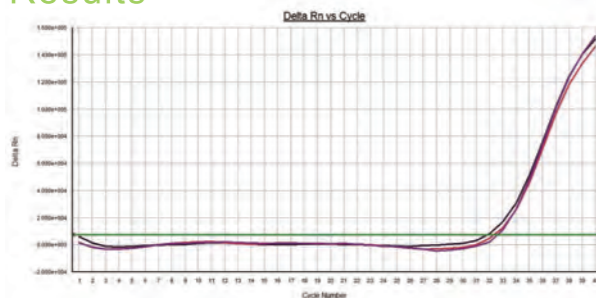


Fig.1. Sensitivity of EV Real-time PCR Kit

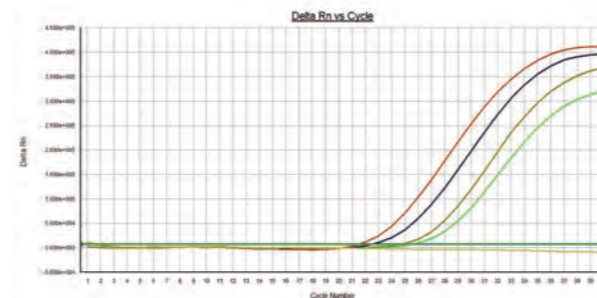


Fig.2. Specificity of EV Real-time PCR Kit

Influenza Virus

Background

Influenza, commonly known as "the flu", is an infectious disease caused by an influenza virus. Symptoms can be mild to severe. The most common symptoms include: a high fever, runny nose, sore throat, muscle pains, headache, coughing, and feeling tired. Three types of influenza viruses affect people, called Type A, Type B, and Type C. Usually, the virus is spread through the air from coughs or sneezes. It can also be spread by touching surfaces contaminated by the virus and then touching the mouth or eyes. A person may be infectious to others both before and during the time they are sick.

Influenza spreads around the world in a yearly outbreak, resulting in about three to five million cases of severe illness and about 250,000 to 500,000 deaths. The infection may be confirmed by testing the throat, sputum, or nose for the virus. A number of rapid tests are available; however, people may still have the infection if the results are negative. The real-time PCR kits for detecting the influenza virus developed by DaAn Gene can detect the RNA of virus more accurate.

Products

Product Description	Target	Specimen	LOD*
Influenza A Virus H1N1(2009) PCR Diagnostic Kit	RNA	• Throat swab	1.0×10^3 PFU/ml
Influenza A Virus PCR Diagnostic Kit	RNA		1.6×10^2 PFU/ml
Influenza B Virus PCR Diagnostic Kit	RNA		1.6×10^2 PFU/ml
Influenza Virus Subtype H1 PCR Diagnostic Kit	RNA	• Throat swab • Nasopharyngeal secretion	1.0×10^3 PFU/ml
Influenza Virus Subtype H3 PCR Diagnostic Kit	RNA	• Throat swab	1.5×10^2 PFU/ml
Avian Influenza Virus Subtype H7N9 PCR Diagnostic Kit	RNA	• Respiratory specimens • Serum • Lung tissue	1.0×10^3 copies/ml

*LOD: Limit of detection

Results

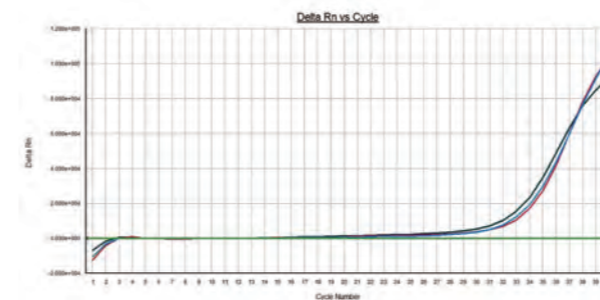


Fig.1. Sensitivity of H1N1 (2009) Real-time PCR Kit

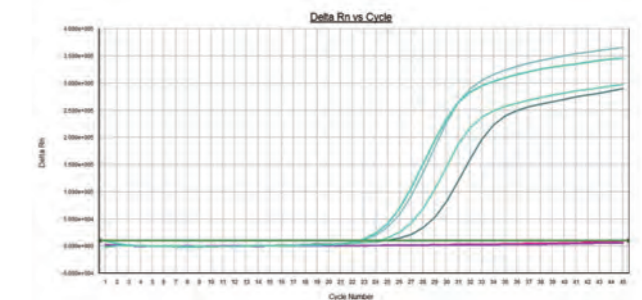


Fig.2. Specificity of H1N1 (2009) Real-time PCR Kit

Tumor Markers

Background

A tumor marker is a biomarker found in malignant cell, blood, urine, or body tissues that can be elevated by the presence of one or more types of cancer. There are many different tumor markers, each indicative of a particular disease process, and they are used in oncology to help detect the presence of cancer. An elevated level of a tumor marker can indicate cancer.

Tumor markers can be determined in serum or rarely in urine or other body fluids. The real-time PCR kits for detecting the nucleic acid of tumor markers developed by DaAn Gene, can detect the tumor markers quantitatively and accurately. And the kits could help the doctor or researcher to monitor the changes of cancer in molecular diagnostic level.

Products

Product Description	Target	Specimen	LOD*
Epstein-barr Virus PCR Diagnostic Kit	DNA	• Whole blood	5.0×10^3 copies/ml
Multidrug Resistance Gene MDR1 PCR Diagnostic Kit	RNA	• Peripheral blood	50 copies/ μ l
Fusion Gene BCR-ABL PCR Diagnostic Kit	RNA	• Bone marrow	50 copies/ μ l

*LOD: Limit of detection

Results

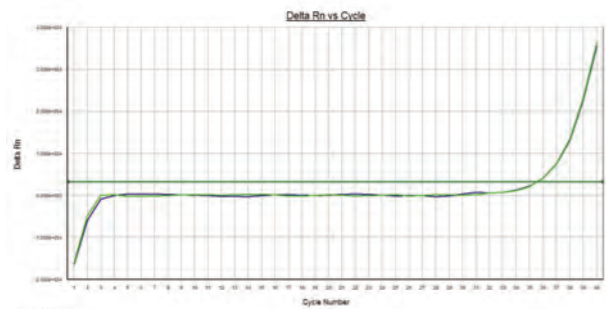


Fig.1. Sensitivity of BCR-ABL Real-time PCR Kit

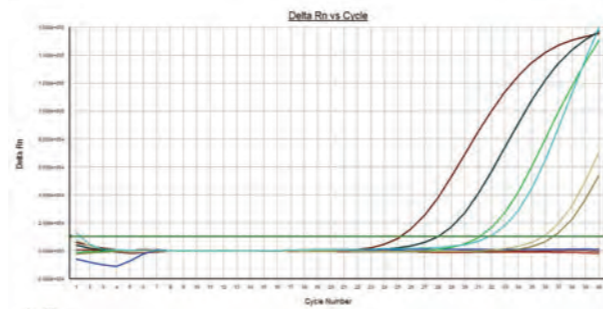


Fig.2. Specificity of BCR-ABL Real-time PCR Kit

Public Health

Background

Public health is the public utilities which related to a country or a region of the people health. It contains the prevention, monitor and treatment of serious diseases, especially the infectious disease.

The real-time PCR kits for public health developed by DaAn Gene could apply to the detection of serious disease, which is important to the diagnosis, prevention, monitor and control of epidemic disease, so that the detection can improve the health and quality of life through prevention and monitor of disease.

Da An Gene accumulated rich experience in public health emergency event which could be traced back to our experience of fighting against SARS epidemic in 2003. When the diseases broke out, like H1N1, Ebola virus, Dengue virus, Zika virus, etc, Da An Gene always organized various force and endeavor to complete the research and development of PCR kits like in short time. By the mature R&D platform and core of raw materials system, Da An Gene has the strong support and guarantee to fight against the emergency outbreak of epidemic in time.

Products

Product Description	Target	Specimen	LOD*
Rabies Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA	"Sialaden,brain biopsy cerebrospinal fluid, urinary sediment"	
Salmonella Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Feces, anal swab	1.0×10^2 copies/ml
Shigella Spp.Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Feces, anal swab	1.0×10^2 copies/ml
Human Parvovirus B19 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Serum,plasma	1.0×10^2 copies/ml
Brucella Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Milk and related dairy products	1.0×10^2 copies/ml
Severe Fever With Thrombocytopenia Syndrome Bunyavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA	Serum	10 TCID ₅₀ /ml
Middle East Respiratory Syndrome Coronavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA	Nasopharyngeal swab, urine and serum	1.0×10^3 copies/ml
Salmonella Enterica Type I PCR Diagnostic Kit	DNA	Feces, anal swab	
Zika Virus PCR Diagnostic Kit	RNA	Serum,plasma	50 copies/ml
Japanese Encephalitis Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA		
Measles Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA		
Dengue Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	RNA		

*LOD: Limit of detection

TORCH

Background

TORCH refer to a group of pathogens, which can lead to geneogenous intrauterine infection and perinatal infection and further result in malformation of perinatal infant. It's a abbreviation of a group of pathogenic microorganism. "T" means "Toxoplasma". "O" means "Other" pathogenic microoganism. "R" means "Rubella Virus". "C" means "Cytomegalovirus". And "H" means

"Herpes Virus(I/II)".

The real-time PCR kits for detecting the nucleic acid of TORCH developed by DaAn Gene, can perform with high sensitivity and efficiency to detect the pathogen directly, which help the doctors and researchers to diagnostic confidently, and improve the prenatal health of family.

Products

Product Description	Target	Specimen	LOD*
Herpes Simplex Virus II Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Ulcer slide Swab of secretion from genitourinary tract	1.0×10^3 copies/ml
Herpes Simplex Virus I Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Cerebrospinal fluid(CSF)	5.0×10^2 copies/ml
Human Cytomegalovirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DNA	Serum/Urine/Milk/Whole blood	5.0×10^2 copies/ml
Toxoplasma PCR Diagnostic Kit	DNA	Whole blood/Amniotic fluid/Villus	5.0×10^2 copies/ml
Rubella Virus PCR Diagnostic kit	RNA	Serum or plasma	1.0×10^3 copies/ml

*LOD: Limit of detection

Results

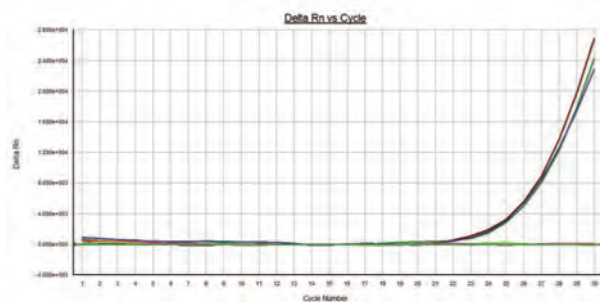


Fig.1. Sensitivity of HSV II Real-time PCR Kit

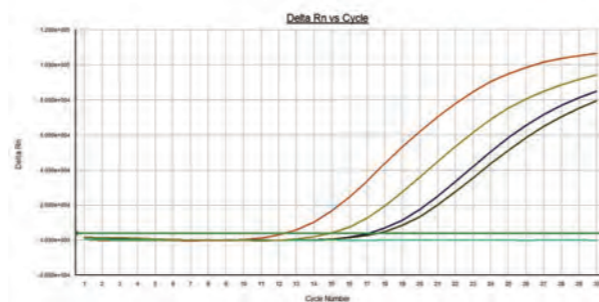


Fig.2. Specificity of HSV II Real-time PCR Kit

Others

Background

Thalassemia is one of the most serious monogenic hereditary diseases with the highest incidence rate in the world. It is a type of hemolytic anemia induced by the decrease or absence of the synthesis of one or more peptide chains of human hemoglobin. The globin synthesis disorder arises from mutation or deletion of human hemoglobin gene. Severe α thalassemia will induce fetal edema, and lead to the increase in the neonatal mortality. The fetuses with moderate thalassemia need blood transfusion frequently. They will lose their capacities of physical labor after growing up. That seriously affects their life qualities. Currently, there is no radical treatment against thalassemia. The families with thalassemia children are suffering from

heavy pressures both in mental and economic aspects. Trisomy 21, also known as down syndrome (DS), is a genetic disorder caused by the presence of all, or part of a third copy of chromosome 21. It is typically associated with physical growth delays, characteristic facial features, and mild to moderate intellectual disability. Nowadays, there is no cure for Down syndrome.

Therefore, it's very important to screening the these two disease in the early stage. DaAn Gene offers the PCR kits for the screening detection of α -thalassemia and trisomy 21, which could assist in the diagnosis of α -thalassemia and trisomy 21.

Products

Product Description	Target	Specimen	LOD*
α -thalassemia Genetic PCR Diagnostic Kit (Gap-PCR)	α -thalassemia gene DNA	Venous blood	
21 Trisomy And Sex Chromosome Polyploidy PCR Diagnostic Kit (Fluorescent PCR Capillary Electrophoresis)	STR gene site DNA	Venous blood, umbilicus blood, amniotic fluid	10ng/ μ l DNA
Group B Streptococcus Fluorescent Polymerase Chain Reaction Diagnostic Kit			
CYP2C19 Genotyping Fluorescent Polymerase Chain Reaction Diagnostic Kit	CYP2C19		

*LOD: Limit of detection

Nucleic Acid Extraction Kit

Background

Nucleic acid, which include DNA (deoxyribonucleic acid) and RNA (ribonucleic acid), are made from monomers known as nucleotides. Nucleic Acid Extraction is a process of purification of DNA / RNA from sample using a combination of physical and chemical method. Currently it is a routine procedure in molecular diagnosis analyses. It's very important in molecular diagnostic detection and analysis.

DaAn Gene provide various and efficient nucleic acid extraction method according to different sample types and experimental condition. Our extraction kits can remove the protein, inorganic ions and other organic impurities in maximize, which improve the purity of nucleic acid, and perform well in PCR / RT-PCR experiment.

Products

Product Description	Target	Specimen
RNA Isolation Kit (One Step Method)	RNA	Peripheral blood, bone marrow, cell, tissue, etc.
RNA Extraction Kit (AB Reagent Method)	RNA	
DNA Releasing Reagent Kit	DNA	Serum, plasma, cervical exfoliated cell, throat swab, nasopharyngeal secretions, etc
DNA Isolation Kit (Boiling Method)	DNA	
Nucleic Acid Isolation or Purification Reagent (Magnetic Bead)	DNA	
Nucleic Acid Isolation or Purification Reagent (Spin Column)	DNA	
Blood Genomic DNA Extraction Kit	DNA	
RNA/DNA Purification Kit (Preservation)	DNA/RNA	Swab

*LOD: Limit of detection



Nucleic Acid Isolation or Purification Reagent (Magnetic Bead)



Nucleic Acid Isolation or Purification Reagent (Spin Column)

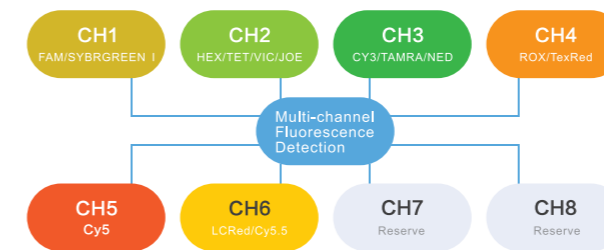
AGS4800 Real-time PCR Fluorescence Detecting System

Introduction

AGS 4800 real-time PCR fluorescence detecting system is applicable to fluorescent quantitative PCR detection as following fields: research field such as immunology, human genome biology, forensic medicine, oncology, organization and population biology, paleontology, zoology, botany, etc. Clinical diagnosis field such as virus, tumor, genetic diseases of fluorescent quantitative PCR detection in the field of clinical diagnosis.



It's high cost performance that combine with 6 channels in detection, and it can be extended to 8 channels.



Features

- Equip with database and LIS connection
- Reserve full-automatic PCR link function
- Equip with temperature gradient function
- Wireless remote control and analysis in real-time
- Unique humanized module design: 18×8 connected pipe
- 3 independent systems for different requirement of samples
- Samples are in or out automatically and hot lid is warmed automatically
- User can set report form, multicolor printing, analysis and print function
- Adopt long life LED, which guarantee the stability and reliability of the optical system
- Carry positive detection rate analysis by itself. Laboratory pollution will activate the early warning
- High throughput and the maximum testing samples capacity can reach to 144 with changeable and flexible scheme(samples capacity are optional among 48, 96, 144)



Technical parameters

NMPA

Name	Real-time PCR Instrument
Specification	AGS4800
Sample Volume	3×48×0.2ml centrifugal tube (10 - 100μl) , adapt to 18×8 connected pipe
Sensitivity	As low as 1 copy
Fluorescence Channel	[F1~F2 ; F1~F4 ; F1~F6](Optional) F7~F8(Reserved)
Temperature Range	30.0 - 99.9°C
Temperature Uniformity	±0.3°C(@55°C)
Precision of Temperature Control	±0.1°C(@55°C)
Warming Rate(MAX)	≥4.5°C/s
Cooling Rate(MAX)	≥4.5°C/s
Hot Lid Temperature Range	30~105°C
Fluorescence Intensity Test Repeatability	CV≤3%
Sample Test Repeatability	CV≤3%
Sample Linear	Linear regression coefficient r≥0.980
Fluorescent Linear	Linear regression coefficient r≥0.990
Instrument Communication Interface	USB2.0
Operating System	Windows 7/8/10
Input Power	100~240V, 50/60Hz, 1500W
Dimension(mm)	586×526×780(L×W×H)
Net Weight(kg)	36kg, 65kg, 92kg(exclude computer)



AGS4800



AGS7600 Real-time PCR Fluorescence Detecting System



- This product is based on fluorescent polymerase chain reaction, which can analyze human-derived nucleic acid samples (RNA / DNA) in clinical medicine.

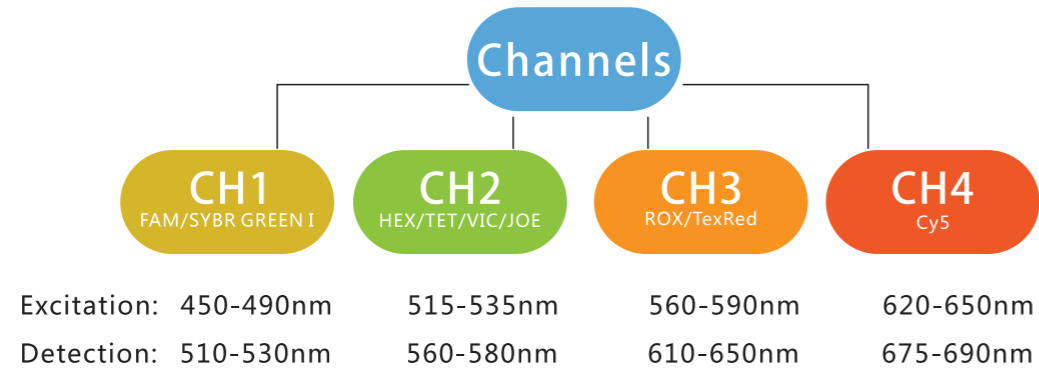
Technical parameters

Product Description	Target
Sample capacity	48×0.2mL centrifugal tube (5-100μL), suitable for 6×8 couplings
Sensitivity	1 copy
Fluorescence channel	F1, F2, F3, F4 channels
Temperature	4.0-99.9°C
Uniformity	±0.3°C(@55°C)
Temperature control precision	±0.1(@55°C)
Heating rate(MAX)	≥4.5°C/s
Cooling rate(MAX)	≥4.5°C/s
Heat cover temperature range	30-105°C
Repeatability of fluorescence intensity detection	CV≤3%
Sample detection repeatability	CV≤3%
Sample linear	Linear regression coefficient r≥0.98
Fluorescence linear	Linear regression coefficient r≥0.98
Instrument communication interface	USB 2.0
Operating system	Windows 7/8/10
Product size	470×450×275mm(L×W×H), 23kg

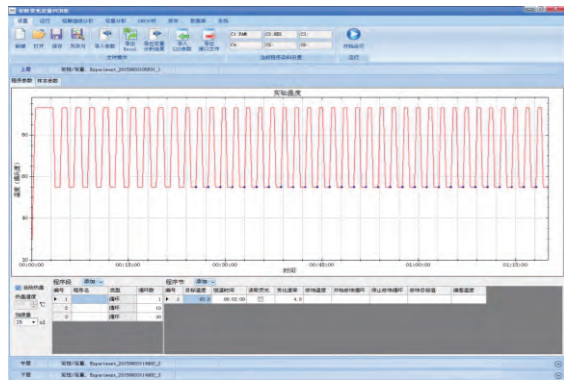
AGS7600



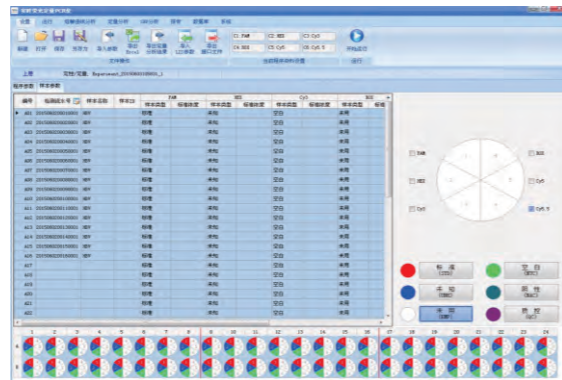
Highly Cost-effective 4 Channel Combination



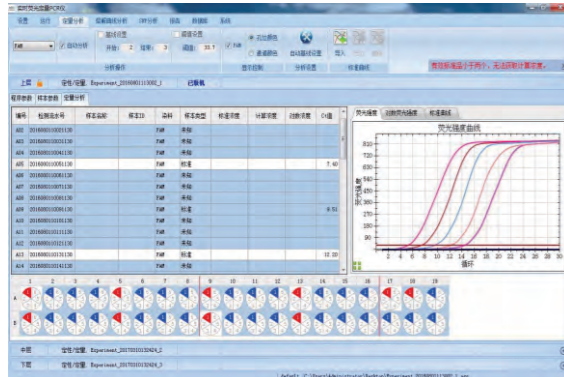
Programming Interface



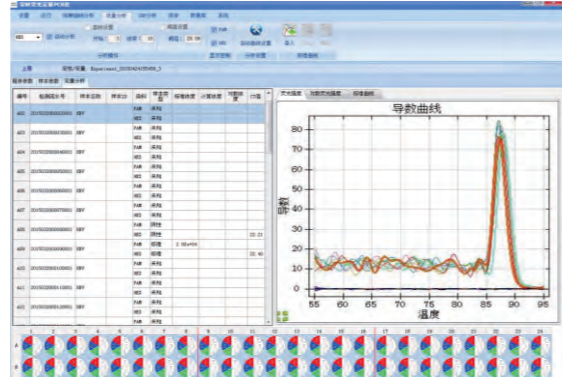
Sample Parameters Setting



Quantitative Analysis

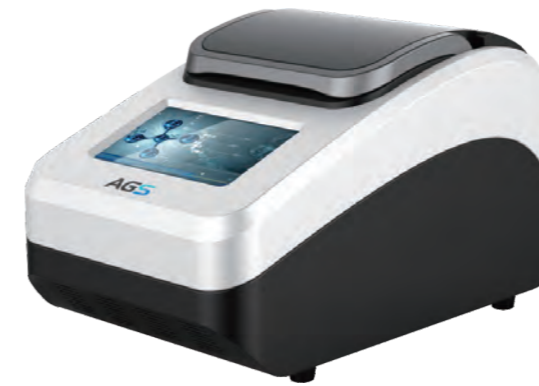


Melting Curve



AGT9601 Thermal Cycler

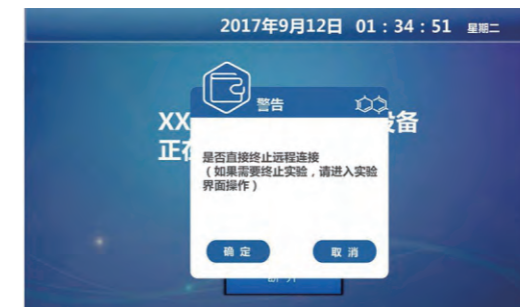
PRODUCT FEATURES AND OPERATION INTERFACE



The 2nd generation model of AGT9601 is an updated gradient thermal cycler with high cost performance and robust functionality. It adopts a brand new integrated modular design and military-level components, highlighted by its remarkable stability, accuracy and efficiency. Moreover, the machine outstands with cloud-integrated sync service platform, which allows remote control through APP on mobile devices for extremely flexible operation and management. Through continuous innovation, AGS brand commits to improving solutions for molecular diagnostics and clinical laboratory with consistently high quality.

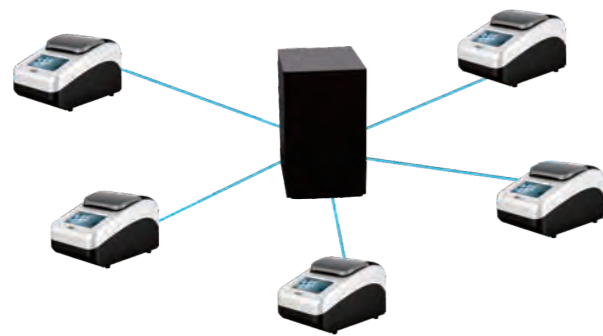
Remote Control

Cloud-integrated sync service platform ensures real-time data communication, which makes immediate programming and management for any user at any place through APP on mobile devices possible. With WIFI or cellular network, operation and efficiency of the machine can meet an optimal result.



AGS7600

AGT9601 Thermal Cycler



2 Reliable Functionality

Brand new integrated module design guarantees reliable and uniform assembly high quality TE module with a service life of more than 100,000 hours increases the stability of the machine

3 Temperature Accuracy

Peltier-based temperature control module assures accurate temperature control with its high reliability, while temperature uniformity settles discrepancy among each well. Moreover, gradient temperatures can be automatically calculated and intuitively displayed, thus, efficiency of sample amplification can be consistently maintained even from a low copy level.

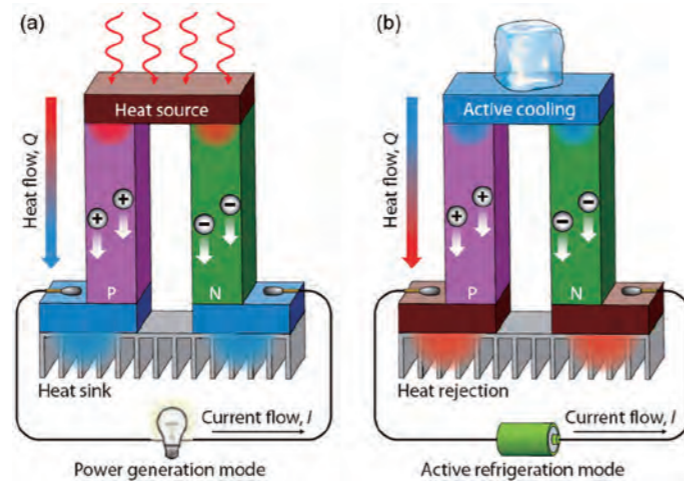
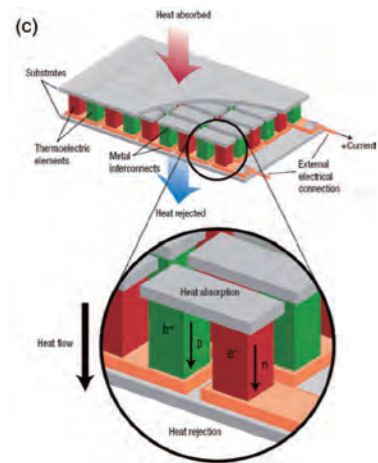


Figure a,b,c [Nam W.H., Shin W.H., Cho J.Y., et al. Current Status of Nanostructured Thermoelectric Materials for Mid-High Temperature Applications [J]. 2019.]

4 Rapid Ramp

Military level temperature control components together with integrated modular design extensively decrease the testing period by facilitating the ramp rate to 6 °C/s.



5 Power-off Protection

Automatic power-off protection for testing data in the case of unexpected blackout, and residual cycles will be restarted for the successful amplification once power restored.

Technical Parameters

Model	AGT9601
Sample Capacity	96*0.2ml
Temperature	4-100°C
Ramp-Up Rate	≥6°C/s
Ramp-Down Rate	≥5°C/s
Temperature Uniformity	≤±0.1°C
Temperature Accuracy	≤±0.1°C
Temp. Control Mode	Bolck/Tube
Ramp Rate Adjustable	0.1-6°C
Gradient Range	1-40°C
Hot-Lid Temp. Range	30-110°C
Program Memory Capacity	1000+(USB FLASH/Mobile Devices)
96-Well PCR Plate	No skirted, half-skirted and full-skirted, applicable to 0.2ml PCR tubes and 8-well strip tube
Program Steps(Max)	100
Program Cycle(Max)	99
Interface Language	English /Chinese
Display Screen	7 inch,800×480 pixels, TFT
Communication Interface	USB2.0, LAN, and WIFI
Product Size	380*260*240mm(L*W*H)
Product Weight (Net.)	9.8kg
Input Power	100-240V, 50/60Hz, 650 VA
Control Mode	Cell phone/Table/PC(Android&IOS)
Control Service	Remote control&data communication



AGS 8830-8/ AGS 8830-16 Real-Time PCR Detection System

Continuous innovation, excellent quality, perfect management and first-class service

Product instruction

This product uses "real-time fluorescent quantitative PCR technology" combined with the self-developed "real-time dynamic precision temperature control technology", which can be used in various fluorescent quantitative PCR detection projects to achieve rapid nucleic acid detection. With powerful functions and flexible operation, PCR amplification and detection experiments of DNA and RNA can be completed in a compact and portable environment. The use of a special reverse anti-pollution open lid design can effectively avoid pollution caused by the accidental popping of the hot lid, simplify the experimental operation process, and combine with efficient and fast PCR reagents to provide a complete solution for SARS-CoV-2 detection and other projects.

Product features

- The instrument is small, light and portable.
- Four-channel design, matching common consumables to meet more customer needs
- HD display operation, no need to connect to computer
- Real-time dynamic and precise temperature control to achieve efficient temperature rise and fall



Technical parameters

Product model	AGS 8830-8/ AGS 8830-16 Real-Time PCR Detection System
Samples	8/16x0.2ml tubes(5-100µl), compatible to 8-strips tubes and single tube
Sensitivity	10-10 ¹⁰ copies
Dyes	F1:FAM,SYBER Green I; F2:HEX,VIC,JOE,TET,YELLOW; F3:ROX; F4:CY5
Optical system	LED+PD, Scanning detection mode to maintain consistency of results and avoid calibration
Lid temperature range	30-110°C
Kit	Compatible with open detection reagents (both conventional quantification and rapid quantification can be used)
Temperature range	30-100°C
Uniformity	≤±0.1°C
Heating rate	≥8°C/s(MAX)
Fluorescence intensity detection repeatability	CV≤0.5%
Specification	300x260x180mm(LxWxH)
Software	The instrument can directly analyze the results and data, and is equipped with a computer version of special analysis software
Touch screen	LED 7-inch color capacitive screen, no need to connect to computer
Certification	NMPA

Smart 32 Nucleic Acid Extraction Instrument

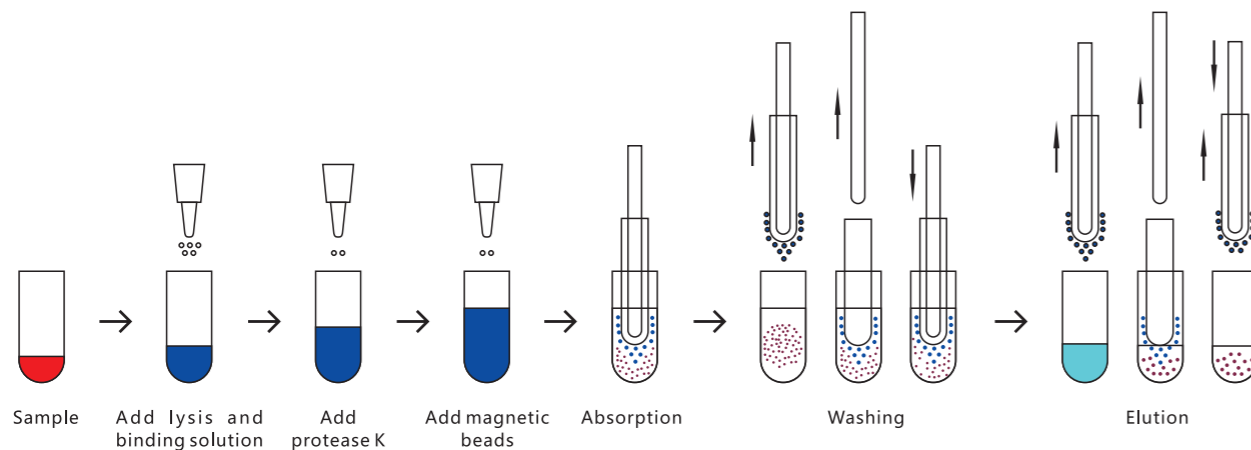
Introduction

Smart 32 nucleic acid extraction instrument is designed and manufactured by DaAn Gene. The extraction instrument owing the functions of temperature control, oscillation and blending, can crack sample and release the nucleic acid under the appropriate conditions, blend the magnetic beads with nucleic acid, elute and release the nucleic acid, transfer and separate the magnetic bead through magnetic device, at last extract the nucleic acid material from the samples. It can extract a single sample or 32 samples at the same time, the user can edit experiment procedure, monitor experiment condition, open or close the ultraviolet light disinfection functions through the touch screen. It operates easily, extract rapidly, and has reliable result.



Principle and Process

Through using the magnet stick on the lab chamber, transfer the magnetic beads adsorbed with nucleic acid into different reagents hole. Then use the stirring set to mix liquid rapidly and repeatedly, make the liquid and magnetic beads mix evenly. By cell lysis, nucleic acid adsorption, washing and elution, eventually get nucleic acid of high purity.



With the corresponding magnetic beads method and nucleic acid extracting reagent, this instrument can rapidly extract DNA and RNA from plant and animal

tissue, fluid, blood, food and pathogenic microbes samples. The instrument is suitable for nucleic acid extraction and purification of biological samples.

Parameters

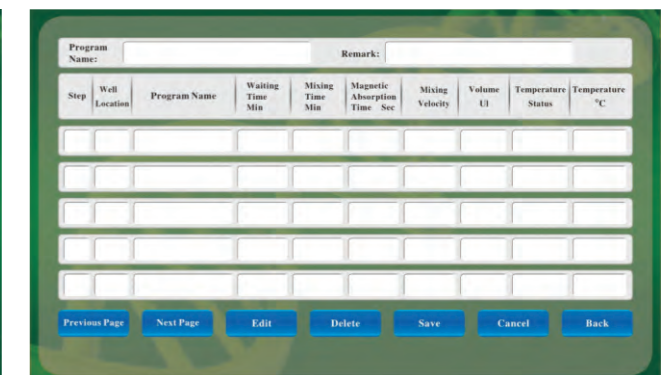
NMPA CE

Reaction volume	20 ul - 1000 ul
Sample volume	≤ 600 ul
Sample handling capacity	1 - 32 samples
Extraction plate	2 units of 96 extraction plates
The collection rate of magnetic beads	≥ 95%
Temperature range	30 °C - 90 °C
Oscillation speed for mix	Fast, medium and slow speed for different requirement
Difference between extracting hole	For the extraction of the same sample, the variation coefficient of CT value between holes is less than 3%.
Operation interface	Large screen for touching operation
Rapid program setting	8 sets of rapid program for setting. The extraction could be started after 2 clicks at least
Instrument connector	RS232/RJ45/USB, etc.
UV	Yes
Extraction time	30 - 60 minutes/time
Overall dimension	435 mm*340 mm*450 mm
Weight	29 kg
Power supply	AC 110-240 V, 50 Hz/60 Hz, 800VA
Operation temperature range	10 °C ~ 30 °C
Operation humidity range	≤ 80%
Sensitivity of nucleic acid extraction	For extraction of the 30IU/ml sample, the positive rate is more than 95%

Operation Interface



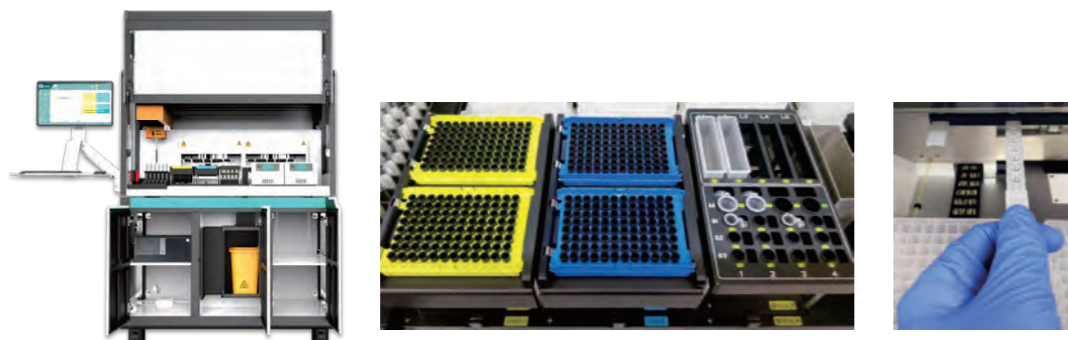
Homepage



Operation setting

Stream SP96 Fully Automatic Nucleic Acid Extractor

Stream SP96 Fully Automatic Nucleic Acid Extractor is a fully automatic high-throughput equipment with automatic liquid processing and nucleic acid extraction functions. With magnetic bead extraction reagents, it can complete automatic nucleic acid extraction from 1 to 96 clinical samples of various types. The flexible automatic liquid handling function can accurately complete sample loading and reagent distribution according to requirements; friendly human-computer interaction software provides clear guidance, allowing you to easily master the operation of the instrument, and the operation process does not require manual steps, which greatly improves work efficiency!



Characters



Fast

- 96 samples can be processed within 60 minutes



Economical

- Only 2.1 tips per sample
- Suitable for single consumable



Protection

- HEPA filter system
- Strict physical partition
- With independent UV disinfection



Simple

- Pre-installed multiple experimental programs
- Strong compatibility, suitable for various types of samples
- Graphic and text wizard, visual operation



Flexible

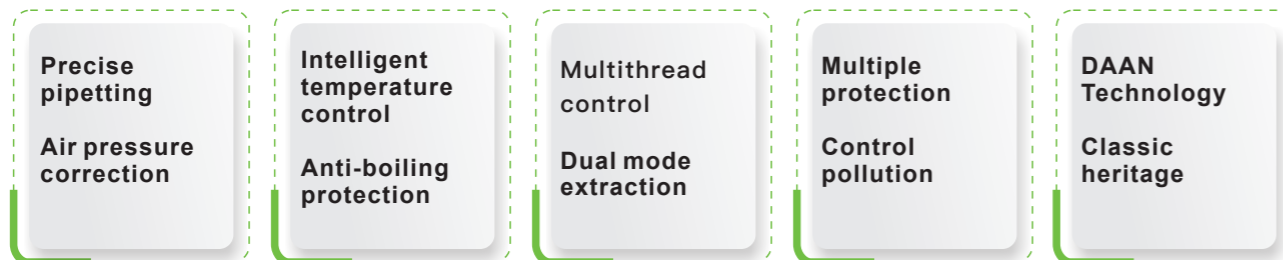
- Nucleic acid samples can be allocated to 3*96 (288 people) PCR reaction reagent mix
- Flexible construction of 9 PCR detection reagent mix



Unique

- Two different extraction processes can be run at the same time to achieve samples with different extraction requirements on the machine at the same time

Core tech



Precise pipetting
Air pressure correction

Intelligent temperature control
Anti-boiling protection

Multithread control
Dual mode extraction

Multiple protection
Control pollution

DAAN Technology
Classic heritage

Air pressure correction can be adapted to flat ground, plateau, and island environment to ensure accurate liquid transfer

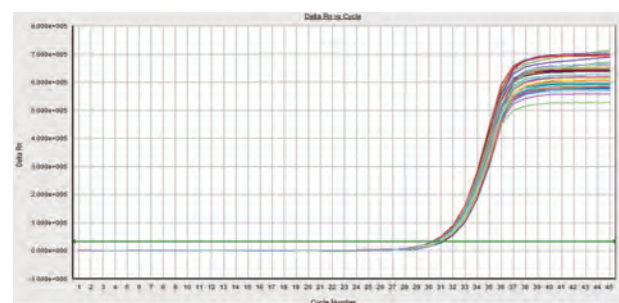
Independent temperature control of heating components, high efficiency and uniformity, air pressure feedback to prevent liquid boiling, safe and reliable

The instrument runs multi-threaded control, and the dual extraction module can run different extraction processes.

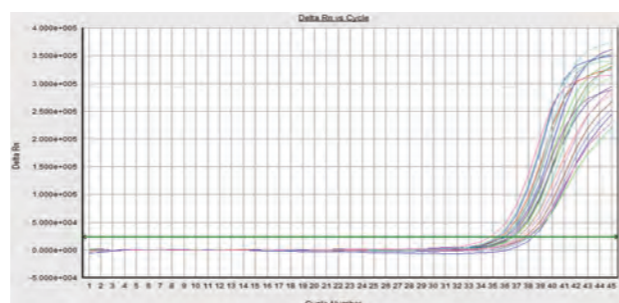
Scientific physical partitioning, UV radiation from inside to outside, gas filtration, effectively control cross contamination.

Daan's automated solutions for molecular diagnostics inherit classic technology and are trustworthy.

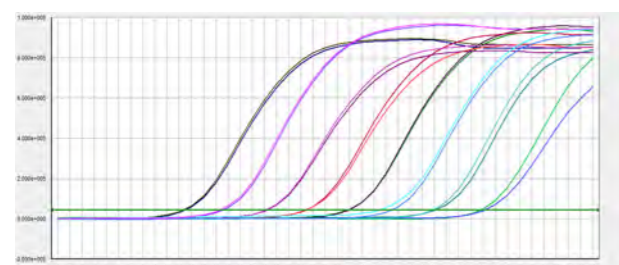
Performance



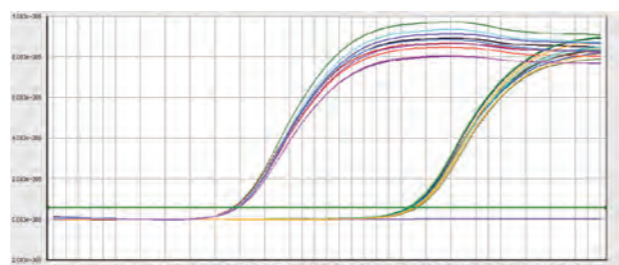
The concentration was 10^3 IU/mL HBV reference product, and ≥ 48 samples were extracted in batches, and analyzed by qPCR, CV $<1\%$.



The concentration was 10 IU/mL HBV reference product diluted sample, and 20 samples were extracted repeatedly, and the detectable rate was 20/20 by qPCR analysis.



The dilution concentration is 10 IU/mL~ 10^8 IU/mL HBV reference product diluted sample for extraction, $R2>0.98$.

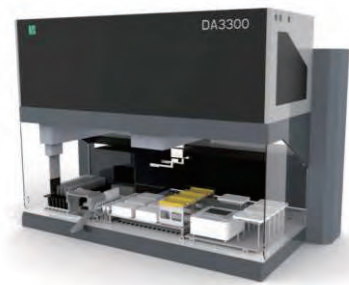


The concentration is 10^7 IU/mL HBV strong positive reference and negative control cross-distribution extraction, no cross-contamination.

Parameters

Samples	1-96		
Operating mode	Automatic sample loading & nucleic acid extraction & PCR reaction reagent loading		
Extraction mode	Batch and single sample synchronization processing		
Sample volume	Support double sample extraction, applicable volume 20 μ L-700 μ L		
Single pipetting range	1 μ L-1000 μ L		
Pipetting performance	20 μ L-100 μ L	accuracy: $\pm 1\%$	Repeatability: $\leq 0.6\%$
	$\geq 100\mu$ L	accuracy: $\pm 0.8\%$	Repeatability: $\leq 0.5\%$
Liquid level detection	With liquid level detection and pressure monitoring functions, it can prevent bubble interference and prompt blockage		
Alarm for abnormal conditions	With sound and light indication of running status, alarm reminder of insufficient reagent, collision, etc.		
X/Y/Z direction displacement error	Error does not exceed 0.1mm		
Extraction temperature control range	Room temperature -99 $^{\circ}$ C		
Reagent refrigeration (optional)	Temperature 2 $^{\circ}$ C-8 $^{\circ}$ C, automatically sealed		
Anti-pollution design	HEPA filtration, external exhaust system, UV sterilization		
Interface Type	JR45 port, two-way LIS or HIS system communication function		
Operating environment	Temperature :5 $^{\circ}$ C-40 $^{\circ}$ C, Humidity : $\leq 80\%$		
Input power	a.c.100-240V 50Hz		
Weight	250kg		
Dimension(mm)	1300 \times 745 \times 1707mm (L x W x H) (including storage workbench)		

Application Details



DA 3300

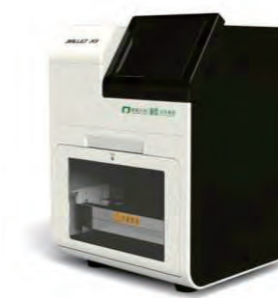


DA 3200

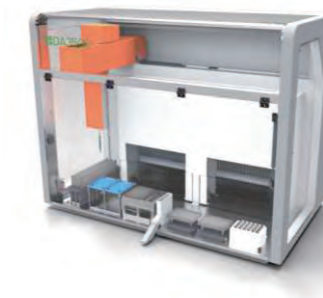


Smart 32

DA 3300	DA 3200	Smart 32
Full automation	Full automation	Automatic extraction
Maximum reaction volum: 1 ml	Maximum reaction volum: 1 ml	Maximum reaction volum: 1 ml
Maximum sample volum: 600 µl	Maximum sample volum: 600 µl	Maximum sample volum: 600 µl
Capacity: 96 / 192 samples (2 configurations)	Capacity: 48 tests (single batch), 96 tests (Adding samples in batches)	Capacity: 32 samples
Technology of platform: Tecan platform + Independent R&D	Technology of platform: Independent R&D	Technology of platform: Independent R&D
Application field: Clinical detection	Application field: Clinical detection	Application field: Clinical detection
Conventional scientific research	Conventional scientific research	Conventional scientific research
Genomics analysis	Genomics analysis	Genomics analysis
Centers for Disease Control (CDC)	Centers for Disease Control (CDC)	Centers for Disease Control (CDC)
Food safety detection	Food safety detection	Food safety detection
Medicolegal expertise	Medicolegal expertise	Medicolegal expertise
1320x500x460mm(LxW xH) 220kg	950x665x574mm(LxW xH) 100kg	435x340x450mm(LxW xH) 29kg



Ballet X3



DA 3500



DA 3000

Ballet X3	DA 3500	DA 3000
Automatic extraction	Full automation	Full automation
Maximum reaction volum: 5 ml	Maximum reaction volum: 5 ml	Maximum reaction volum: 5 ml
Maximum sample volum: 2,000 µl	Maximum sample volum: 2,000 µl	Maximum sample volum: 2,000 µl
Capacity: 24 samples	Capacity: 48 tests (single batch), 96 tests (Adding samples in batches)	Capacity: 192 tests (mixed detection), 24 tests (independent detection)
Technology of platform: Independent R&D	Technology of platform: Independent R&D	Technology of platform: Independent R&D
Application field: Clinical detection	Application field: Clinical detection	Application field: Nucleic acid library construction
Conventional scientific research	Conventional scientific research	NAT of blood screening
Centers for Disease Control (CDC)	Centers for Disease Control (CDC)	Ultrasensitive detection of nucleic acid
Dissociative DNA extraction in NGS	Dissociative DNA extraction in NGS	
Nucleic acid library construction	Nucleic acid library construction	
NAT of blood screening	NAT of blood screening	
Ultrasensitive detection of nucleic acid	Ultrasensitive detection of nucleic acid	
445x384x574mm(LxW xH) 160kg	1184x720x785mm(LxW xH) 160kg	1680x800x1720mm(LxW xH) 400kg

Laboratory type

The mobile van type integrated laboratory

The product is composed of a sample preparation room, a PCR detection room, a dressing room, a decontaminating room and an electrical and mechanical room;

Designed with unidirectional flow ventilation, the product can prevent aerosol contamination; DC air-conditioning system with full fresh air and full exhaust; ventilation rate 12 times/h and 100,000 cleanliness class; Overall indoor negative pressure with unidirectional flow; Direct expansion fresh air-conditioning unit, with the air supply and exhaust forms of upward supply and downward return;



Decontaminating room Nucleic acid detection room Buffer room Sample processing room Machine room Dressing room

Interior Design Sketch of Integrated and Mobile PCR Laboratory

Advantages

- (1) High efficiency: the product can be installed within just several hours;
- (2) Fast turnover: due to fast transfer, medical assistance can be provided according to the severity of epidemic situation in a region;
- (3) Low cost: the product cost is far lower than the reconstruction of the existing building;
- (4) Standalone: it will not affect the layout of the existing building structures;
- (5) Developable prior to and subsequent to the epidemic situation, corresponding functions can be added to the product according to the demand of the hospital;
- (6) Anti-pollution: the sewage, pollutants, waste gas, etc. arising from the product are disposed separately;
- (7) Safety: the product is designed in strict accordance with the standards in connection with BSL-2 laboratory and PCR detection.
- (8) Easy installation: only power source, water supply and drainage interfaces are reserved at the site. upward supply and downward return;

The assembled nucleic acid testing laboratory



Set up core work room supporting preparation room, dressing room, buffer room, etc., with an area of about 68m²; Adopt the one-way flow design of personnel, the core working room adopts the transmission window and the buffer room isolation to prevent aerosol pollution; The number of air changes is 15 times per hour, the cleanliness level is 100,000, the new air direct expansion combined air conditioning purification unit, the air flow organization form is from top to bottom;

At the beginning of the installation of the purification air-conditioning unit, the medium-efficiency filter is used, and the indoor air is supplied with high efficiency; The exhaust air is set up with high-efficiency filtration, in-situ sterilization, and electric biological sealing valve is set, which is made of 304 stainless steel; Detection capacity: 1500 tests can be completed everyday.

Advantages

- (1) Efficient, accurate fast and safe;
- (2) Independent and integrated, will not affect the existing building structure layout, directly supplement the dedicated nucleic acid laboratory, and quickly improve the detection ability;
- (3) It can be developed, and corresponding functions can be added according to the needs of the hospital. To upgrade the detection ability, and have the ability to complete the outpatient clinic;
- (4) Anti-pollution: Sewage, waste, and exhaust generated in the laboratory are specially treated;
- (5) Safety, strictly in accordance with BSL-2 (Biosafety Level 2) + laboratory and PCR testing related standard
- (6) Simple installation, only need to reserve power, water supply and drainage interfaces on site;

Laboratory achievements

At present, the whole laboratory aided by DAAN GENE to the Iraqi government is in normal operation. The improvement in detection capacity enables the Iraqi government to accelerate the confirmation of patient groups and lay the foundation for the establishment of effective quarantine measures. Considering the current situation, it may be necessary to increase the mobility of sample detection capability.

DAAN GENE can realize the mobile van type integrated laboratory, which can be distributed and employed to detect the samples at any time. The mobile van type integrated laboratory made by DAAN GENE can effectively improve the detection efficiency, achieve detection of the samples at any point, convenient fast and efficient!



Product Description	Cat.No	Specification	Certificates
Novel Coronavirus			
Detection Kit For 2019 Novel Coronavirus (2019-Ncov) RNA (PCR-Fluorescence Probing)	DA-930	48 tests/kit	WHO CE NMPA FSC TGA
		96 tests/kit	
Detection Kit for 2019-nCoV (PCR-Fluorescence)	DA0990	Large package, 24 tests/kit	NMPA CE FSC
	DA0991	Large package, 48 tests/kit	
	DA0992	Large package, 96 tests/kit	
	DA0993	Single tube, 24 tests/kit	
	DA0994	Single tube, 48 tests/kit	
	DA0995	Single tube, 96 tests/kit	
Blood Screening			
Hepatitis B Virus / Hepatitis C Virus /Human Immunodeficiency Virus Type 1 PCR Diagnostic Kit	DA0160	48 tests/kit	NMPA
	DA0161	96 tests/kit	NMPA
Human Immunodeficiency Virus (HIV)			
Human Immunodeficiency Virus Type 1 PCR Diagnostic Kit	DA-Z195	48 tests/kit	NMPA FSC
Human Papillomavirus			
Human Papillomavirus Types 6 And 11 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-056	48 tests/kit	NMPA CE
Human Papillomavirus Types 16 And 18 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-057	48 tests/kit	NMPA CE
High-Risk Human Papillomavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-092	48 tests/kit	RUO
Sexually Transmitted Infectious (STIs)			
Neisseria Gonorrhoeae Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-053	48 tests/kit	NMPA CE FSC
Chlamydia Trachomatis Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-054-1	48 tests/kit	NMPA CE FSC
Ureaplasma Urealyticum Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-055	48 tests/kit	NMPA CE FSC
Treponema Pallidum Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-062	48 tests/kit	CE

Product Description	Cat.No	Specification	Certificates
Respiratory Pathogen			
Mycobacterium Tuberculosis Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-052	48 tests/kit	NMPA CE FSC
Mycoplasma Pneumonia Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-064	48 tests/kit	NMPA CE FSC CMDCSA
Chlamydia Pneumoniae Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-066 -1	48 tests/kit	CE
Adenovirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-067	48 tests/kit	NMPA CE CMDCSA
Legionella Pneumophila Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA -069	48 tests/kit	CE
Streptococcus Pneumoniae Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-081	24 tests/kit	CE
Respiratory Syncytial Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-086	10 tests/kit	NMPA CE FSC CMDCSA
Human Bocavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-106	24 tests/kit	CE
Others			
α-thalassemia Genetic PCR Diagnostic Kit (Gap-PCR)	DA-036	20 tests/kit	NMPA
	DA-099	20 tests/kit	NMPA
21 Trisomy And Sex Chromosome Polyploidy PCR Diagnostic Kit (Fluorescent PCR Capillary Electrophoresis)	DA0100	50 tests/kit	NMPA
Group B Streptococcus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA0851	48 tests/kit	NMPA
Cyp2C19 Genotyping Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA0891	48 tests/kit	NMPA
Digestive Pathogen			
Helicobacter Pylori Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-063	48 tests/kit	NMPA CE CMDCSA
Human Parvovirus B19 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-100	24 tests/kit	CE
Campylobacter Jejuni Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-105	24 tests/kit	CE
Shigella Spp.Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-107	24 tests/kit	CE
Enterovirus 71 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-108	24 tests/kit	NMPA CE FSC

Product Description	Cat.No	Specification	Certificates
Enterovirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-109	24 tests/kit	NMPA CE FSC
Coxsackievirus A16 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-110	24 tests/kit	NMPA CE FSC
Vibrio Cholerae Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-133	24 tests/kit	CE
Enterovirus 71 / Coxsackievirus A16 PCR Diagnostic Kit	DA0351	48 tests/kit	NMPA
Coxsackievirus A10 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA0690	48 tests/kit	NMPA
Enterovirus 71 / Coxsackievirus A16 / Enterovirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA0321	48 tests/kit	NMPA FSC
Norwalk Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-096	24 tests/kit	CE
Group A Of Rotavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-104	24 tests/kit	CE
Coxsackievirus A6 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-482	48 tests/kit	CE
Vibrio Cholerae O139 Serogroup Diagnostic Kit	DA-130	24 tests/kit	
Vibro Cholerae CTX Gene PCR Diagnostic Kit	DA-131	24 tests/kit	
Coxsackievirus A24v PCR Diagnostic Kit	DA-171	48 tests/kit	
Group A Of Rotavirus/Norwalk-like Virus PCR Diagnostic Kit	DA-207	48 tests/kit	
Group B Rotavirus PCR Diagnostic Kit	DA-210	48 tests/kit	
Influenza Virus			
Influenza A Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-094	24 tests/kit	NMPA CE
Influenza B Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-095	24 tests/kit	NMPA CE
Human Influenza Virus Subtype H1 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-143	24 tests/kit	NMPA CE
Human Influenza Virus Subtype H3 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-144	24 tests/kit	NMPA CE
Avian Influenza Virus H7N9 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-472	48 tests/kit	NMPA CE
Influenza A H1N1 Virus (2009) Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-093	24 tests/kit	NMPA CE FSC

Product Description	Cat.No	Specification	Certificates
Tumor Markers			
Epstein Barr Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-065	48 tests/kit	NMPA CE FSC
Multidrug Resistance Gene MDR1 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-076	10 tests/kit	CE
Fusion Gene BCR-ABL Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-077	10 tests/kit	CE
Public Health			
Salmonella Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-102	24 tests/kit	CE
Shigella Spp.Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-107	24 tests/kit	CE
Human Parvovirus B19 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-100	24 tests/kit	CE
Brucella Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-136	24 tests/kit	CE
Severe Fever With Thrombocytopenia Syndrome Bunyavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-078	48 tests/kit	NMPA CE
Middle East Respiratory Syndrome Coronavirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-240	48 tests/kit	NMPA CE
Salmonella Enterica Type I PCR Diagnostic Kit	DA-457	24 tests/kit	NMPA FSC
Zika Virus PCR Diagnostic Kit	DA0711	48 tests/kit	NMPA
Salmonella Typhi Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-121	24 tests/kit	CE
Varicella-Zoster Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-220	24 tests/kit	CE
Japanese Encephalitis Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA -082	24 tests/kit	CE
Measles Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-238	24 tests/kit	CE
Neisseria Meningitidis Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-464	48 tests/kit	CE
Enterohemorrhagic Escherichia Coli O157 Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-083	24 tests/kit	CE
Rabies Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-090	24 tests/kit	CE
Dengue Virus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-156	24 tests/kit	CE



Order Information

Product Description	Cat.No	Specification	Certificates
TORCH			
Herpes Simplex Virus II Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-059	48 tests/kit	NMPA CE
Human Cytomegalovirus Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-061-1	48 tests/kit	NMPA CE
Herpes Simplex Virus I Fluorescent Polymerase Chain Reaction Diagnostic Kit	DA-091	48 tests/kit	NMPA CE
Toxoplasma PCR Diagnostic Kit	DA-060	20 tests/kit	
Rubella Virus PCR Diagnostic kit	DA-075	10 tests/kit	
Nucleic Acid Extraction			
RNA Isolation Kit (One Step Method)	DA-245	1 tests/kit	NMPA
RNA Extraction Kit (AB Reagent Method)	DA-247	10 tests/kit	NMPA
DNA Releasing Reagent Kit	DA-248	10 tests/kit	NMPA
DNA Isolation Kit (Boiling Method)	DA-249	10 tests/kit	NMPA
RNA/DNA Purification Kit (Magnetic Bead)	DA0633	20 tests/kit	NMPA CE FSC
		32 tests/kit	NMPA CE FSC
		96 tests/kit	NMPA CE FSC
RNA/DNA Purification Kit (Spin Column)	DA0591	20 tests/kit	NMPA CE FSC
		48 tests/kit	NMPA CE FSC
RNA/DNA Purification Kit (Preservation)	DA0940	400 µl/tube, 100 tubes/kit	NMPA CE FSC
RNA/DNA Purification Kit (Release)	DA0950	400 µL/tube, 100 tubes/kit	CE
RNA/DNA Purification Kit (Preservation/Release)	DA0960	100 tests/kit	CE
Blood Genomic DNA Extraction Kit	DA-452	20 tests/kit	NMPA

Order Information

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Product Description	Cat.No	Specification	Certificates
RNA/DNA Purification Kit (Magnetic Bead,Alcohol,Fast)	DA0600	96 tests/kit	NMPA
	DA0601	20 tests/kit	NMPA
	DA0602	32 tests/kit	NMPA
RNA/DNA Purification Kit (Magnetic Bead,Alcohol)	DA0620	big package; 20 tests /kit	NMPA
	DA0621	big package; 96 tests /kit	NMPA
	DA0622	pre packaged; 20 tests /kit	NMPA
	DA0623	pre-packaged; 32 tests /kit	NMPA
	DA0624	pre-packaged; 96 tests /kit	NMPA
	DA0625	double holes; pre-packaged; 32 tests /kit	NMPA
Genome DNA Purification Kit	DA0626	32 tests /kit	NMPA
	DA0640	big package; 20 tests /kit	NMPA
	DA0641	big package; 96 tests /kit	NMPA
	DA0642	pre-packaged; 20 tests /kit	NMPA
RNA/DNA Purification Kit (Magnetic Bead)(Single Blood Screening)	DA0643	pre-packaged; 32 tests /kit	NMPA
	DA0660	pre-packaged; 20 tests /kit	NMPA
	DA0661	pre-packaged; 24 tests /kit	NMPA
Nucleic Acid Purification Kit (cfDNA X3)	DA0662	pre-packaged; 48 tests /kit	NMPA
	DA0680	pre-packaged; 20 tests /kit	NMPA
	DA0681	pre-packaged; 48 tests /kit	NMPA
	DA0682	big package; 20 tests /kit	NMPA

Order Information



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Product Description	Cat.No	Specification	Certificates
Nucleic Acid Purification Kit (Magnetic Bead)(Fast DNA Extraction)	DA0720	big package; 20 tests /kit	NMPA
	DA0721	big package; 96 tests /kit	NMPA
	DA0722	pre-packaged; 20 tests /kit	NMPA
	DA0723	pre-packaged; 32 tests /kit	NMPA
Nucleic Acid Purification Kit (Magnetic Bead)(Fast RNA Extraction)	DA0860	big package; 20 tests /kit	NMPA
	DA0861	big package; 96 tests /kit	NMPA
	DA0862	pre-packaged; 20 tests /kit	NMPA
	DA0863	pre-packaged; 32 tests /kit	NMPA
RNA/DNA Purification Kit (Magnetic Bead)(TB)	DA0870	big package; 20 tests /kit	NMPA
	DA0871	big package; 96 tests /kit	NMPA
	DA0872	pre-packaged; 20 tests /kit	NMPA
	DA0873	pre-packaged; 32 tests /kit	NMPA
RNA/DNA Purification Kit (Magnetic Bead) (Multiplex Blood Screening)	DA0880	pre-packaged; 20 tests /kit	NMPA
	DA0881	pre-packaged; 24 tests /kit	NMPA
	DA0882	pre-packaged; 48 tests /kit	NMPA
RNA/DNA Purification Kit (EB Whole Blood)	DA0900	pre-packaged; 32 tests /kit	NMPA
	DA0901	big package; 96 tests /kit	NMPA
	DA0902	double holes; pre-packaged; 32 tests /kit	NMPA

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Product Description	Cat.No	Specification	Certificates
Specimen Preservation			
Specimen Preservation Reagent (Guanidine)	DA0970	3 ml,100 tubes/kit	NMPA FSC
Specimen Preservation Reagent	DA0980	1.0 ml,100 tubes/kit	NMPA FSC
PCR Instrument			
Real time PCR Fluorescence Detecting System	AGS 8830	8/16 test ×0.2ml	NMPA CE
	AGS 4800	3×48 tests ×0.2ml	CE
	AGS 7600	96 tests ×0.2ml	NMPA CE FSC
Thermal Cycler	AGT 9601	48 tests ×.2ml	NMPA CE FSC
Nucleic Acid Extraction Instrument			
Nucleic Acid Extraction Instrument	Smart 32	32 samples	NMPA CE FSC
	Ballert X3	24 samples	NMPA FSC
	DA 3200	48/96 samples	NMPA FSC
	DA 3500	48/96 samples	FSC
	DA 3000	24/192 samples	NMPA
	DA 3300	96/192 samples	FSC
	SP96	96 samples	NMPA FSC
Hepatitis Virus			
Hepatitis B Virus PCR Diagnostic Kit	DA-Z051	48 tests/kit	NMPA FSC
Hepatitis C Virus PCR Diagnostic Kit	DA-Z070	48 tests/kit	NMPA FSC
	DA0170	10 tests/kit	NMPA FSC
Hepatitis E Virus PCR Diagnostic Kit	DA-072	10 tests/kit	FSC

Order Information