



Real-Time PCR Kits

Nucleic acid testing, especially real-time PCR, has been widely used in clinical diagnostic fields such as infectious disease detection, genetic disease diagnosis, cancer risk prediction and precision medicine, recommended by the guidelines for various disease. Tianlong offers more than 40 kinds of real-time PCR reagents, designed for the diagnosis and testing for respiratory diseases, sexually transmitted diseases, prenatal and postnatal care, digestive diseases, genetic diseases, cancers and pharmacogenomic testing. These reagents have obtained approvals in China, EU, Ukraine, Indonesia among other countries and regions around the world.

RESPIRATORY DISEASES

| No. | Catalog No. | Product Name | No. of Tests/Kit |
|-----|-------------|--|------------------|
| 1 | P732H | Novel Coronavirus (2019-nCoV) Nucleic Acid Detection Kit (Fluorescence PCR Method) | 50T |
| 2 | P736H | Novel Coronavirus (2019-nCoV) E-Gene Nucleic Acid Detection Kit (Fluorescence PCR Method) | 50T |
| 3 | P741H | SARS-CoV-2 Nucleic Acid Detection Kit (Real-time RT-PCR Method) | 50T |
| 4 | P742H | SARS-CoV-2 Nucleic Acid Multiplex Detection Kit (Real-time RT-PCR Method) | 50T |
| 5 | P738H | Influenza A/Influenza B/Human Adenovirus/2019-nCoV Nucleic Acid Detection Kit (Fluorometric Real-Time PCR) | 50T |
| 6 | P109H | Mycoplasma Pneumoniae (MP) Nucleic Acid detection Kit (Fluorescence PCR Method) | 32T |
| 7 | P121H | Mycobacterium Tuberculosis Complex Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |
| 8 | P122H | Influenza A/B Virus RNA Detection Kit (Fluorescence PCR Method) | 32T |
| 9 | YP2017H | Respiratory Viral Panel Multiplex PCR Kit (12 types) | 10T |

FEATURED PRODUCTS

Novel Coronavirus (2019-nCoV)

Nucleic Acid Detection Kit (Fluorescence PCR Method)

CATALOG NO.: P732H

INTENDED USE: Auxiliary diagnosis of COVID-19



FEATURES: **Rapid detection:** Test results reported within 50 minutes.

Accurate results: ORF1ab and N gene detection, with internal control (IC).

High sensitivity: Detection limit of 200 copies/mL.

Safe and reliable: Real-time PCR method, closed tubes throughout the procedures, without opening the lid for next step.

Influenza A/B Virus RNA Detection Kit

(Fluorescence PCR Method)

CATALOG NO.: P122H

INTENDED USE: Designed for genotyping and diagnosis of influenza A and influenza B

FEATURES: **Rapid detection:** Test results reported within 1.5h.

All-in-one: Simultaneous genotyping and testing of influenza A and influenza B.

Accurate results: Detection limit of 500 copies/mL, with internal control (IC).

Safe and reliable: Real-time PCR method, closed tubes throughout the procedures, without opening the lid for next step.

SEXUALLY TRANSMITTED DISEASES

| No. | Catalog No. | Product Name | No. of Tests/Kit |
|-----|-------------|--|------------------|
| 1 | P103H | Chlamydia Trachomatis (CT) Nucleic Acid Detection Kit (Fluorescence PCR method) | 32T |
| 2 | P104H | Neisseria Gonorrhoeae (NG) Nucleic Acid Detection Kit (Fluorescence PCR method) | 32T |
| 3 | P105H | Ureaplasma Urealyticum (UU) Nucleic Acid Detection Kit (Fluorescence PCR method) | 32T |
| 4 | P120H | Human Papillomavirus (HPV) Nucleic Acid Detection Kit (Fluorescence PCR method) | 32T |

FEATURED PRODUCTS

Human Papillomavirus (HPV) Nucleic Acid Detection Kit (Fluorescence PCR method)

CATALOG NO.: P120H

INTENDED USE: Designed for cervical cancer screening

- FEATURES:**
- Reliable:** Covering the testing types recommended by authoritative guideline; approved by China NMPA and EU CE-certified.
 - Rapid detection:** Test results reported within 1.5h.
 - All-in-one:** Detection of 18 types of HPV in one go, with differentiation for HPV 16 and 18.
 - Accurate results:** Detection limit of 500 copies/mL, with internal control (IC).
 - Safe and reliable:** Real-time PCR method, closed tubes throughout the procedures, without opening the lid for next step.

REPRODUCTIVE MEDICINE

| No. | Catalog No. | Product Name | No. of Tests/Kit |
|-----|-------------|--|------------------|
| 1 | P106H | Herpes Simplex Virus (HSV) II Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |
| 2 | P107H | Human Cytomegalovirus (HCMV) Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |
| 3 | P108H | Measles/Rubella Virus RNA Detection Kit (Fluorescence PCR Method) | 32T |
| 4 | P123H | Group B Streptococcus (GBS) Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |

Featured Products

Group B Streptococcus (GBS) Nucleic Acid Detection Kit (Fluorescence PCR Method)

CATALOG NO.: P123H

FEATURES: Reliable: Recommended testing by China and global guidelines; Approved by China NMPA; EU CE-certified.

Accurate results: Detection limit of 500 copies/mL, with internal control (IC).

Easy to use: Real-time PCR method, closed tubes throughout the procedures after loading, without opening the lid for next step; Automatic nucleic acid extraction, compatible with Tianlong nucleic acid extractors.

CLINICAL SIGNIFICANCE:

Epidemiological monitoring and analysis.

Pre-pregnancy and prenatal screening for GBS infection.

Providing basis for preventive antibiotic intervention during childbirth.

DIGESTIVE DISEASES

| No. | Catalog No. | Product Name | No. of Tests/Kit |
|-----|-------------|--|------------------|
| 1 | P100H | Hepatitis C Virus (HCV) Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |
| 2 | P101H | Hepatitis B Virus (HBV) Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |
| 3 | P119H | Hepatitis B Virus (HBV) Genotyping PCR Kit (Fluorescence PCR Method) | 32T |
| 4 | P149H | Hepatitis B Virus (HBV) Nucleic Acid Quantitative PCR Kit (Fluorescence PCR Method) | 32T |
| 5 | P115H | Coxsackie A6/A10 RNA Detection Kit (Fluorescence PCR Method) | 32T |
| 6 | P116H | Enterovirus 71/Coxsackie A16/Enterovirus Universal RNA Detection Kit (Fluorescence PCR Method) | 32T |
| 7 | P117H | Enterovirus Universal RNA Detection Kit (Fluorescence PCR Method) | 32T |
| 8 | P134H | Norovirus (GI/GII) RNA Detection Kit (Fluorescence PCR Method) | 32T |

Featured Products

Hepatitis Virus Nucleic Acid Detection Kits

HBV Kit (P101H): Detection limit of 10 IU/mL; Limit of quantification of 30 IU/mL; Covering HBV virus subtypes A, B, C and D

HCV Kit (P100H): Detection limit of 30 IU/mL; Limit of quantification of 50 IU/mL; Covering HCV virus subtypes 1, 1a, 1b, 2, 2a, 2b, and 3

HBV Genotyping Kit (P119H): Genotyping for subtypes B, C and D; Sensitivity of 500 copies/mL

FEATURES: **Reliable:** Recommended testing by China and global guidelines; Approved by China NMPA; EU CE-certified.

Accurate results: High sensitivity, accurate quantification, and wide coverage of subtypes.

Fast and easy: With Tianlong automatic extractors, 96 samples can be tested within 2h.

GENETIC DISEASES

| No. | Catalog No. | Product Name | No. of Tests/Kit |
|-----|-------------|--|------------------|
| 1 | P118H | Human Leukocyte Antigen B27 Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |
| 2 | P124H | Human Survival Motor Neuron 1 (SMN1) Gene Detection Kit (PCR-Melting Curve Method) | 32T |

Featured Products

Human Survival Motor Neuron 1 (SMN1) Gene Detection Kit (PCR-Melting Curve Method)

CATALOG NO.: P168H

INTENDED USE: Designed for auxiliary diagnosis of spinal muscular atrophy (SMA)

FEATURES: **Reliable and precise:** Detecting homozygous and heterozygous deletions; Recommended method according to SMA guidelines and consensus.

Fast and easy: Test procedures completed within 2h; With interpreted testing report.

Economic: Lower cost compared with other methods such as PCR-RFLP or MLPA.

Safe: automatic nucleic acid extraction; Tube closed throughout the testing procedures; Minimized contamination.

PHARMACOGENOMIC TESTING

| No. | Catalog No. | Product Name | No. of Tests/Kit |
|-----|-------------|--|------------------|
| 1 | P127H | Human HLA-B*5801 Gene Detection Kit (Fluorescence PCR Method) | 32T |
| 2 | P153H | Human CYP2C19 Genotyping Detection Kit (PCR-Melting Curve Method) | 48T |
| 3 | P157H | CYP2D6*10/CYP2C9*3/ADRB1(1165G>C)/ AGTR1(1166A>C)/ACE(I/D) Detection Kit (PCR-Melting Curve Method) | 48T |
| 4 | P163H | NPPA(2238T> C)/CYP3A5*3 Detection Kit (PCR-Melting Curve Method) | 48T |
| 5 | P152H | Human MTHFR(C677T) Gene Polymorphism Detection Kit (PCR-Melting Curve Method) | 48T |
| 6 | P165H | Human MTHFR/MTRR Gene Polymorphism Detection Kit (PCR-Melting Curve Method) | 48T |
| 7 | P135H | Human HLA-B*1502 Gene Detection Kit (Fluorescence PCR Method) | 25T |

Featured Products

Human MTHFR/MTRR Gene Polymorphism Detection Kit (PCR-Melting Curve Method)

CATALOG NO.: P165H

GENES TESTED: MTHFR (c.677 C>T), MTHFR (c.1298 A>C), MTRR (c.66 A>G)

SAMPLE TYPE: Whole blood

APPLICABLE TO: Pre-pregnant men and women, pregnant women, patients with cardiovascular and cerebrovascular diseases, etc.

CLINICAL SIGNIFICANCE:

Instructions on reasonable folic acid supplementation for pregnant women and patients with cardiovascular diseases.

Warning about the risk of the birth defects and cardiovascular and cerebrovascular diseases, etc.

Human CYP2C19 Genotyping Detection Kit (PCR-Melting Curve Method)

CATALOG NO.: P153H

GENES TESTED: CYP2C19 genotypes *1, *2, *3 and *17

SAMPLE TYPE: Whole blood

APPLICABLE TO: Patients taking clopidogrel, omeprazole, fluoxetine and other drugs

CLINICAL SIGNIFICANCE:

Medication instructions on CYP2C19 metabolizing enzyme-related drugs, such as omeprazole and clopidogrel.

CYP2D6*10/CYP2C9*3/ADRB1(1165G>C)/ AGTR1(1166A>C) /ACE(I/D) Detection Kit (PCR-Melting Curve Method)

CATALOG NO.: P157H

GENES TESTED: 15 genotypes of CYP2D6*10, CYP2C9*3, ADRB1 (1165G>C), AGTR1 (1166A>C), ACE (I/D) genes

SAMPLE TYPE: Whole blood

APPLICABLE TO: Hypertensive patients taking medications

CLINICAL SIGNIFICANCE:

Able to detect the 5 major locus genes; To guide the medication for β -receptor blockers, angiotensin II receptor antagonists and Angiotensin-converting enzyme inhibitors (ACE inhibitors) for patients with hypertension.

ONCOLOGY TESTS

| No. | Catalog No. | Product Name | No. of Tests/Kit |
|-----|-------------|---|------------------|
| 1 | P110H | EB Virus Nucleic Acid Detection Kit (Fluorescence PCR Method) | 32T |
| 2 | P111H | Human B-raf Gene V600E Mutation Detection Kit (Fluorescence PCR Method) | 20T |
| 3 | P112H | Human K-ras Gene Mutation Detection Kit (PCR-Melting Curve Method) | 20T |
| 4 | P126H | Human Methylated Septin9 DNA Detection Kit (Fluorescence PCR Method) | 32T |

Human B-raf Gene V600E Mutation Detection Kit (Fluorescence PCR Method)

CATALOG NO.: P111H

LOCI DETECTED: Codon 600 of exon 15 (V600E) of B-raf gene

SENSITIVITY: Low mutation load at 1% (under 10ng wild-type background)

SAMPLE TYPE: FFPE tissue sections, biopsy samples of colorectal tumor, melanoma, thyroid tumor, lung tumor, etc.

CLINICAL SIGNIFICANCE:

B-raf is an important transactivator of EGFR pathway. B-raf detection can be helpful for the medication instructions for targeted drugs including EGFR antibodies, Tyrosine-kinase inhibitor and B-raf inhibitors.

Human K-ras Gene Mutation Detection Kit (PCR-Melting Curve Method)

CATALOG NO.: P112H

LOCI DETECTED: 12 point mutations at codons 12 and 13

SENSITIVITY: Low mutation load at 1% (under 10ng wild-type background)

SAMPLE TYPE: FFPE tissue sections and biopsy samples of colorectal cancer, non-small cell lung cancer, etc.

CLINICAL SIGNIFICANCE:

K-ras is a member of the EGFR downstream signaling pathway. Detection of K-ras can be helpful for the medication instructions for targeted drugs including EGFR antibodies and Tyrosine-kinase inhibitors.