



源起健康

BIO-KEY

Multiple respiratory virus RT-PCR detection kit

Quality first

High-end services



Summary of background

Respiratory tract infection are one of the most common diseases, affecting adolescents and adults about two to four times a year, and children about six to eight times a year. Clinically, respiratory tract infection can be divided into upper respiratory tract and lower respiratory tract infection according to different infection sites. Upper respiratory tract infection is a common acute respiratory tract disease, usually accompanied by acute inflammation of the nasal cavity, pharynx or throat, except for a few bacterial infections, most of them are viral infections. Lower respiratory tract infections include bronchitis, pneumonia and other diseases, among which viruses account for 61.4% of pathogens in children's lower respiratory tract infections, and viruses also account for a high proportion in adults' community-acquired pneumonia (15-34.9%).

Product features

1. Optimized target combination with higher detection rate:

Six common viruses of respiratory tract infection and mycoplasma pneumoniae were covered, and the positive detection rate was 64.56%

2. More accurate detection results:

(1) Magnetic bead extraction: magnetic bead has high adsorption efficiency, good impurity removal effect, strong anti-interference ability, high sensitivity and good repeatability;

② Whole-process internal standard monitoring: whole-process internal standard is involved in the extraction, purification and amplification of nucleic acid to achieve whole-process monitoring and avoid false negatives;

(3) Normal temperature cracking: normal temperature sample cracking and nucleic acid release, to avoid aerosol pollution, to prevent false positive;

3. Strong compatibility:

compatible with ABI Q5, Micgene242/244 and other mainstream fluorescence PCR instrument.



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Multiple Respiratory viral RT-PCR test kit (Lyophilized)

This kit is used for in vitro qualitative detection of novel Coronavirus/influenza A + B/respiratory syncytial virus/ adenovirus/mycoplasma pneumoniae in patients with respiratory infection. TaqMan fluorescent probe method was used. For novel Coronavirus/influenza A + B/respiratory syncytial virus/ adenovirus/mycoplasma pneumoniae highly conserved and specific regions, primer probes and RT-PCR reagents for fluorescence detection are designed and labeled with different fluorescence groups. On the fluorescence quantitative PCR instrument, the real-time fluorescence quantitative PCR detection technology can realize the rapid detection of novel coronavirus/ influenza A + B/respiratory syncytial virus/ adenovirus/mycoplasma pneumoniae through the changes of fluorescence signal.

BIK-QL-H004

SN	Composition	QUANTITY
1	PCR enzyme mixture (lyophilized)	96 T/ bottle
2	Primer/probe mixture 1 (Novel Coronavirus/Influenza A + Influenza B)	50 μL/ bottle
3	Primer probe mixture 2 (Respiratory syncytial virus/adenovirus/Mycoplasma pneumoniae)	50 μL/ bottle
4	Enzyme mixture buffer (5×)	400 μL/ bottle
5	Positive control	100 μL/Tube
6	Negative control	100 μL/Tube
7	Seedless water	1mL/Tube
8	Paraffin oil	1.5mL/Tube

BIK-QL-H004S

SN	Composition	QUANTITY
1	Novel Coronavirus/Influenza A + Type B Mixture (Lyophilized)	24 T/Box
2	Respiratory syncytial virus/adenovirus/Mycoplasma pneumoniae mixture (lyophilized)	24 T/Box
3	Positive control	100 μL/Tube
4	Negative control	100 μL/Tube
5	Seedless water	1mL/Tube
6	Paraffin oil	1.5mL/Tube

Multiple Respiratory viral RT-PCR test kit (Lyophilized)

Name of Test Item	Detection sensitivity
Novel coronavirus	500copies/mL
Influenza A virus	2.0TCID50/mL
Influenza B virus	2.0TCID50/mL
Respiratory syncytial virus	500copies/mL
Adenovirus	500copies/mL
Mycoplasma pneumoniae	500copies/mL

Clinical Practice

1. The gold standard of virology detection, with a short window period, can assist in the early, rapid and accurate diagnosis of clinical respiratory tract infection
2. Identify six respiratory tract infection pathogens at one time to assist in efficient clinical differential diagnosis and formulation of treatment plans

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