

The background of the top half of the page is a laboratory setting. It shows a hand in a blue nitrile glove using a pipette to transfer a blue liquid into a petri dish. In the background, there are several blue and white capsules and a petri dish with a blue liquid. The overall color scheme is blue and white.

2019-Novel Coronavirus, Influenza A and B virus nucleic acid test kit (Fluorescent Probe-based real-time PCR assay)

■ Background

The 2019-Novel Coronavirus (2019-nCoV) belong to the β genes. People infected with the virus can cause a variety of respiratory symptoms. In severe cases, it can lead to pneumonia, severe acute respiratory syndrome, renal failure, and even death.

Influenza virus is a type of pathogen that can cause acute respiratory infections in humans. It is highly infectious, spreads quickly, has a high morbidity rate and is accompanied by a certain mortality. Influenza A virus and influenza B virus are the two most common influenza viruses, which have caused large-scale epidemics on a global scale many times.

Detection significance

1. In the period of COVID-19 pandemic, it can help doctors distinguish between the novel coronavirus infection and influenza virus infection, and make a targeted treatment plan;
2. Early diagnosis and early isolation can be achieved for the infection of the three pathogens, in order to block the transmission of pathogens, and reduce the risk of epidemic transmission.

Test principle

Use multiple fluorescent PCR technology to detect the 2019-Novel coronavirus (ORF1ab gene), influenza A virus (M1 gene) and influenza B virus (NS1 gene) in human respiratory samples at the same time in one tube, and early diagnose of the infection of three pathogens.

Product advantages

- **High detection efficiency:** Three pathogens can be detected in one tube at the same time, which greatly improves the detection efficiency;
- **High specificity:** The result is more reliable without any cross-reaction with other pathogens that cause respiratory infections;
- **High sensitivity:** The detection limit can be as low as 200 copies/mL, and samples with low concentration can be accurately detected;
- **Reliable results:** Internal control system is used to monitor the experimental operation process.

Applicable Equipment

- Applied Biosystems™7500 Real-Time PCR System
- BioRad CFX96 Real-Time PCR System
- Other Real-time thermal cyclers which could detect FAM、ROX、VIC/HEX and CY5 simultaneously

Specimen | Nasal swab, Throat swab, sputum

Kit size | 50 tests/kit

Shelf life: 9 months

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