

SARS-CoV-2 Nucleic Acid Detection Kit

(PCR-Fluorescent Probe Method)



Molecular

SARS-CoV-2 Nucleic Acid Detection Kit (PCR-Fluorescent Probe Method)

SARS-CoV-2 Nucleic Acid Detection Kit is designed for qualitative detecting the RNA of SARS-CoV-2 in the samples of nasopharyngeal swabs, sputum, bronchoalveolar lavage fluid, stool, etc., for suspected case, suspected cluster case or other cases that require the diagnostic and differential diagnosis of SARS-CoV-2 infection, which helps the clinical diagnosis of the infection of SARS-CoV-2.



Principle

This product qualitatively detects the RNA of SARS-CoV-2 in the specimen through measuring the change of fluorescence signal intensity during RT-PCR amplification with specific primers and probes against the conserved region of ORF 1ab and N gene, using One Step RT-PCR method. The UNG-dUTP was used to minimize the posibility of contamination of PCR amplification products. In the meantime, with the internal positive control, it can avoid false negative result in PCR amplification.

Parameters

Sample type: nasopharyngeal swabs, sputum, bronchoalveolar lavage fluid, stool, etc.

Sample volume: 10 µL Package: 32 T/ kit 96 T/ kit

Limit of detection: 200 copies/ mL

Performance

High Eficiency: With Nucleic Acid Extraction Kit, one person, one machine, one day can do more than 1000 tests.

Full Monitoring: False negative posibility can be reduced by monitoring the extraction and detection with internal tagged gene.

Anti-contamination: UNG-dUTP is set to minimize the possibility of contamination cause by PCR amplification products during detection.

Undetection Prevention: By adopting multi-flourescence PCR amplification method and taking ORF 1ab and N gene as detection target, the kit detects various points at the same time and avoids undection caused by mutation.

Applicable Instruments: ABI 7500 Real-Time PCR System, SLAN-96P Real-Time PCR System and other PCR systems with FAM, VIC/HEX and ROX channels.

Auxiliary extraction reagents and instruments

Nucleic acid extraction kit- Virus

Nucleic Acid Isolation System EXM3000/EXM6000

Integrated Solution SARS-CoV-2 Nucleic Acid Detection

Plan 1: High-throughput Nucleic Acid Isolation system + PCR System



- With the Nucleic Acid Extraction Kit and Nucleic Acid Isolation system EXM6000, the extraction of nucleic acid of 96 samples can be processed during 12 minutes.
- 2 One person can finish more than 1000 tests in 12 hours.
- 3 Recommended for high volume laboratories with fast test demand.

Plan 2: Low-throughput Nucleic Acid Isolation system + PCR System



- 1 With the Nucleic Acid Extraction Kit and Nucleic Acid Isolation system EXM3000, the extraction of nucleic acid of 32 samples can be processed during 9 minutes.
- 2 Most test items only require one extraction, which reduces operation time and process.
- 3 With SARS-CoV-2 Nucleic Acid Detection Kit, one hour is enough for the PCR detection.

Plan 3: Manual Extraction + PCR System



- 1 The extraction kit absorbs the nucleic acid of the virus by magnetic beads, only takes 4 minutes for cell breaking and absortion of nucleic acid.
- 2 Only one washing is required during the extraction to get highly purified nucleic acid, avoid the loss during the washing and reduces the use of comsumibles and operation.
- 3 Manual extraction requires magnetic separator, centrifuge, dry bath, etc.



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