



SARS-CoV-2 Nucleic Acid Detection Kit

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(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 and 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 quantitatively 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 possibility 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 and etc

Sample volume: 10ul

Package: 32 T/ kit

Detection limit: 500 copies/ mL

Performace

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

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

Anti-contamination: By UNG-dUTP anti-contamination method, the contamination of PCR amplification products can be avoided.

Undetection Prevention: By adopting multi-flouescence PCR amplification method and taking ORFlab and N region as detection target, the kit detects various points at the same time and avoids undetection caused by mutation.

Applicable Instruments: ABI 7500 Series, CFX96 Series, LightCycler Series, M2000RT, Rotorgene etc.

Auxiliary extraction reagents and instruments

Nucleic acid extraction kit- Virus

Nucleic acid extraction kit- Stool

Nucleic Acid Extraction Platform EXM9600

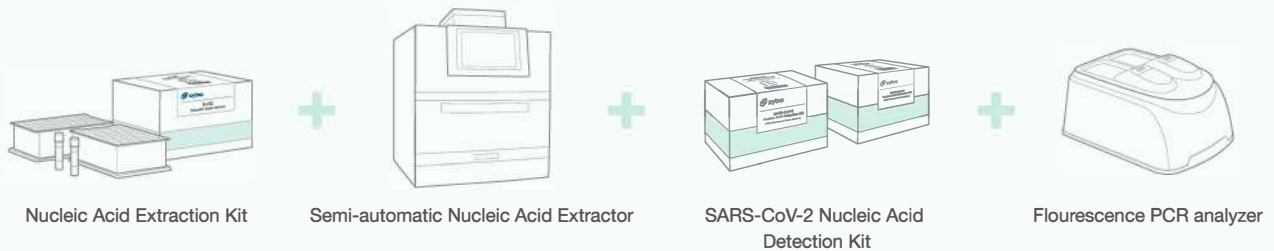
Integrated Solution SARS-CoV-2 Nucleic Acid Detection

• Plan 1: Automatic Nucleic Acid Extractor + PCR



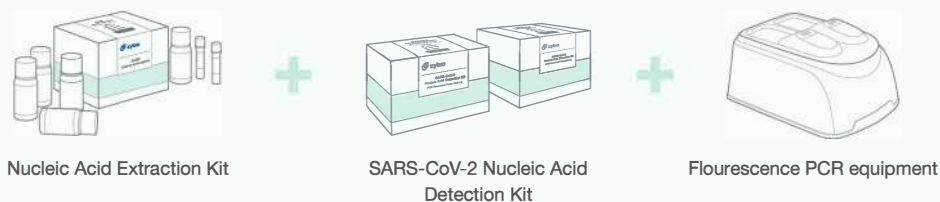
- 1 With the Nucleic Acid Extraction Kit developed by Zybio and EXM9600, the extraction of nucleic acid of 96 samples can be processed during 60 minutes.
- 2 One person can finish more than 1000 tests in 12 hours.
- 3 Recommended for high volumen laboratories with fast test demand.

• Plan 2: Semi-automatic Nucleic Acid Extractor + PCR



- 1 With the Nucleic Acid Extraction Kit developed by Zybio and semi- automatic nucleic acid extractor, 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



- 1 The extraction kit absorbs the nucleic acid of the virus by magnetic beams, only takes 4 minutes for cell breaking and absorption of nucleic acid.
- 2 Only one wash is required during the extraction to get highly purified nucleic acid, avoid the loss during the wash and reduces the use of consumables and operation.
- 3 Manual extraction requires magnetic shelf, metal bath, centrifuge and oscillating mixer etc.



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