



# SARS-CoV-2 & Influenza A/B Nucleic Acid Detection Kit

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(PCR-Fluorescent Probe Method)



Molecular

# SARS-CoV-2 & Influenza A/B Nucleic Acid Detection Kit

## (PCR-Fluorescent Probe Method)

SARS-CoV-2 & Influenza A/B Nucleic Acid Detection Kit is designed for qualitative detecting the RNA from multiple respiratory viruses simultaneously in the samples of nasopharyngeal (NP) swabs, nasal swabs, etc.



## Principle

This product qualitatively detects the RNA of SARS-CoV-2 & Influenza A/B in the specimen through measuring the change of fluorescence signal intensity during RT-PCR amplification with specific primers and probes, 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 (NP) swabs, nasal swabs, etc.

**Sample volume:** 10ul

**Package:** 32 T/ kit, 96 T/ kit

**Limit of detection:** SARS-CoV-2: 200 copies/mL; Influenza A: 500 copies/mL; Influenza B: 500 copies/mL

**Target gene:** SARS-CoV-2: S and N gene; Influenza A: M gene; Influenza B: HA gene; Internal control: GAPDH gene

## Features

**High Efficiency:** with Zybio's 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 control.

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

**Applicable Instruments:** ABI 7500 Real-Time PCR System, SLAN-96P Real-Time PCR System and other PCR systems with FAM, VIC, ROX and CY5 channels.

### Auxiliary extraction kit and instruments

Nucleic acid extraction kit- Virus

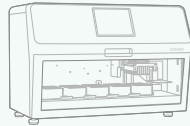
Nucleic Acid Isolation System EXM3000/EXM6000

# Integrated Solution SARS-CoV-2 & Influenza A/B Nucleic Acid Detection Kit

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



Nucleic Acid Extraction Kit



Nucleic Acid Isolation System EXM6000



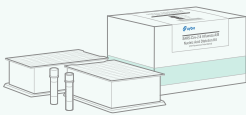
SARS-CoV-2 Nucleic Acid Detection Kit



Flourescence PCR analyzer

- 1 With Zybio's 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



Nucleic Acid Extraction Kit



Nucleic Acid Isolation System EXM3000



SARS-CoV-2 Nucleic Acid Detection Kit



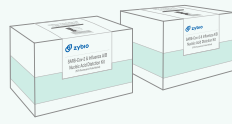
Flourescence PCR analyzer

- 1 With Zybio's 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.

## • Plan 3: Manual Extraction + PCR System



Nucleic Acid Extraction Kit



SARS-CoV-2 Nucleic Acid Detection Kit



Flourescence PCR equipment

- 1 The extraction kit absorbs the nucleic acid of the virus by magnetic beads, only takes 4 minutes for cell breaking and absorption 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 consumables and operation.



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