



# Molaccu COVID-19 Detection Kit

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(PCR-Fluorescent Probe Method)



Molecular

# Molaccu COVID-19 Detection Kit (PCR-Fluorescent Probe Method)

Molaccu COVID-19 Detection Kit is designed for qualitative detecting the RNA of SARS-CoV-2 in the samples of nasal/throat swab, 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 RdRP gene, N gene and E gene, using One Step RT-PCR method.

## Parameters

**Sample type:** nasal/throat swab

**Sample volume:** 10 ul

**Limit of detection:** 100 copies/ ml

**Target gene:** RdRP gene, N gene and E gene

## Excellent Performance

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

**Full Monitoring:** False negative possibility can be reduced by monitoring the extraction, amplification and detection process with GAPDH housekeeper gene.

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

**Undetection Prevention:** By adopting multiplex PCR amplification method and taking RdRP, N and E genes as detection target, the kit detects various points at the same time and avoids undetection caused by mutation.

**Applicable Instruments:** ABI 7500 Real-Time PCR System, SLAN-96P Real-Time PCR System and other PCR systems with FAM, VIC, Cy5 and ROX channels.

### Auxiliary extraction kit and instruments

Nucleic acid extraction kit- Virus; Nucleic Acid isolation System EXM3000/EXM6000

### Order information

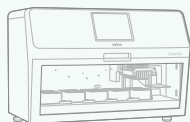
Package Size	Catalog No.
32 T/kit	4080101
96 T/kit	4080102

# Integrated Solution SARS-CoV-2 Nucleic Acid Detection

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



Nucleic Acid Extraction Kit



Nucleic Acid Isolation System EXM6000



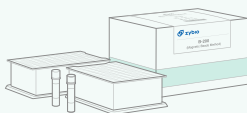
Molaccu COVID-19 Detection Kit



Quantitative real-time PCR system

- 1 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



Nucleic Acid Extraction Kit



Nucleic Acid Isolation System EXM3000



Molaccu COVID-19 Detection Kit



Quantitative real-time 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 Molaccu COVID-19 Detection Kit, one hour is enough for the PCR detection.

## • Plan 3: Manual Extraction + PCR System



Nucleic Acid Extraction Kit



Molaccu COVID-19 Detection Kit



Quantitative real-time PCR system

- 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.
- 3 Manual extraction requires magnetic separator, centrifuge, dry bath, etc.



**Zybio Inc.**

Address: Floor 1 to Floor 4, Building 30, No.6 of Taikang Road,  
Block C of Jianqiao Industrial Park, Dadukou District, Chongqing, China 400082  
Tel: +86-23 6865 5509 Fax: +86-23 6869 9779  
Email: [info@zybio.com](mailto:info@zybio.com) Website: [www.zybio.com](http://www.zybio.com)

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