



Molaccu Fast SARS-CoV-2 RT-qPCR Detection Kit

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(PCR-Fluorescent Probe Method)



Molecular

Molaccu Fast SARS-CoV-2 RT-qPCR Detection Kit

Molaccu Fast SARS-CoV-2 RT-qPCR Detection Kit is a real-time reverse transcription polymerase chain reaction (RT-qPCR) product intended for qualitative detection of nucleic acid from the SARS-CoV-2 samples. Unlike regular SARS-CoV-2 detection reagents, this kit is specially designed in formulation and PCR program to significantly reduce the detection time, which is very friendly for emergency detection demand such as in airport, customs, central hospitals, etc.



Scenarios



Airport



Customs



Hospital



Community

Features

Fast qPCR detection time

- By using Zybio EXP160 fast Real-time PCR System, the detection time can be less than 35 minutes.
- By using other qPCR systems that have the compatible fluorescent channels, the PCR detection time can be 15 to 20 minutes less. The fast kit is available for qPCR systems with FAM, VIC and ROX, verification before using is required.

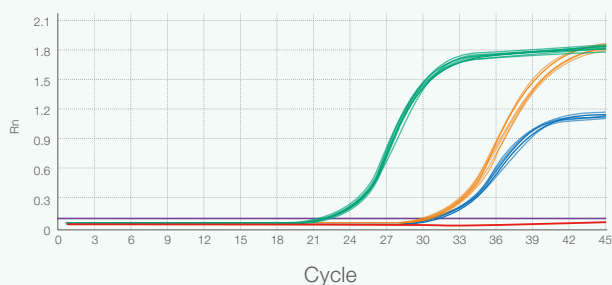
Excellent detection performance

- Aiming at two conservative genes of SARS-CoV-2 (N and ORF1ab genes) brings high accuracy. The minimum detection limit is 200 copies/mL.
- PC, NC and endogenous IC also help with better trouble shooting.
- UNG-dUTP system helps eliminating cross-contamination caused by last round qPCR.
- High specificity, the test covers 100% of the known SARS-CoV-2 sequences based on NCBI & GISAID database as of November 8, 2021. No cross-reaction was observed with other pathogens commonly found in respiratory specimens.

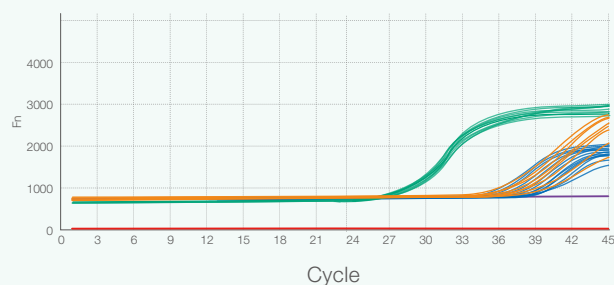
Integrated SARS-CoV-2 detection solution

Disposable virus sampling tube	Available for single sampling, 5X pooling sampling and 10X pooling sampling.
Nucleic acid extraction kit	Available for both manual extraction and automatic extraction.
Nucleic acid isolation system EXM3000/EXM6000	EXM3000: 9min to extract 32 viral samples; EXM6000: 12min to extract 96 viral samples.
Automated Liquid Pipetting Robotics M1000	Available for liquid pipetting, pre-PCR system preparation, etc. Takes 6 min to finish extraction preparation for 16 samples.
Fast Real-time PCR System EXP160	Less than 35 min to test 16 samples (each run).
Zybio SARS-CoV-2 Detection Kit	* Detect SARS-CoV-2 and its variants. * Fast qPCR kit shorten detection time greatly.

Testing report



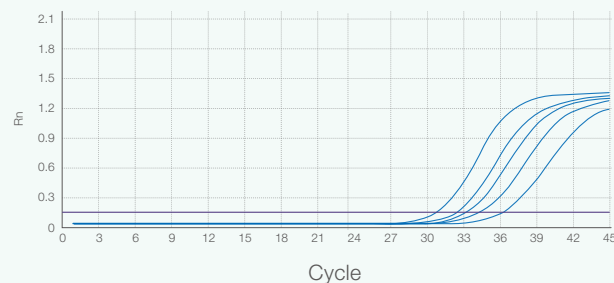
Accuracy testing shows that the kit provides high accurate result. (Blue: FAM channel, N gene; Green: VIC channel, human GADPH; Yellow: ROX channel, ORF1ab gene)



Sensitivity testing shows that the kit provides high sensitivity result. (Blue: FAM channel, N gene; Green: VIC channel, human GADPH; Yellow: ROX channel, ORF1ab gene)



Linear analysis for ORF1ab gene and N gene, both testings show good linearity. (Blue: FAM channel, N gene; Yellow: ROX channel, ORF1ab gene)





Zybio Inc.

Address: Floor 1 to Floor 5, Building 30, No.6 of Taikang Road,
Block C of Jiangqiao Industrial Park, Dadukou District, 400082 Chongqing,
PEOPLE'S REPUBLIC OF CHINA

Tel: +86-23 6865 5509 Fax: +86-23 6869 9779

Email: info@zybio.com Website: www.zybio.com

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