BIOTECH
BIOMEDICINE SCIENCE

REAL-TIME PCR DETECTION KIT FOR COVID-19 CORONAVIRUS

This kit uses RT-real time PCR technology to detect the RNA from SARS-CoV-2 virus.
Real-time reverse transcription and amplification of nucleic acids can be performed in one step.
Sample type: Oral swab, Nasal swab and Anal swab.

- Double target assay : specific for SARS-CoV-2 virus
- Fast and reliable results in 47minutes
- Suitable for any qPCR cycler with FAM/HEX(VIC) detection
- No cross reaction with common human respiratory CoV or MERS
- In compliance with international guidelines(WHO and CDCs)
- Master mix of enzymes and buffers. Easy to handle
- Including positive control and negative control

Name	Items	Spec.	Ingredients
PCR amplification kit	Reaction Buffer	650μl×1Tube	Buffer,dNTP,DNA polymerase,reverse transcriptase
	Primer Probe Mix	100μl×1Tube	Primer,probe
Contrast reagents	Negative control	250μl×1Tube	cell-culture medium
	Positive control	250μl×1Tube	Pseudovirus with target gene fragment

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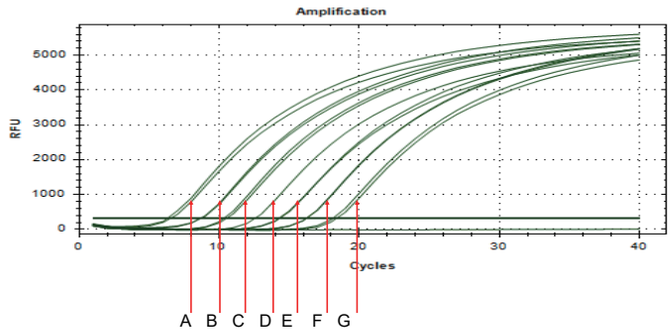
WORKING PRINCIPLE

This detection kit based on RT-real time PCR technology to detect SARS-CoV-2. Dual targets were selected, ORF1ab and N gene, labeled with 5' FAM/3' BHQ1 and 5' HEX/3' BHQ2, respectively. During real time PCR amplification, the fluorescent signal is released by Taq exo activity, the reporter is seperated from quenching molecule group. Signal is collected by the detector and nucleic acid for SARS-CoV-2 is quantitively measured.

PRODUCT PICTURES

TITRATION TEST AND CLINICAL SAMPLE TEST RESULT

Pseudovirus with target gene fragment, were synthesized with IVT to get RNA. After purification, and quantification, RNA were diluted to test the efficiency. (RNA concentration 130 ng/L, samples were diluted as following. A=1:10, B=1:150, C=1:100, D=1:500, E=1:1000, F=1:5000, G=1:10000)



Two patient samples were gethered from CDC and measured with SARS-CoV-2 kit. Results is showed below: