



>>> Fluorescence PCR Method Novel Coronavirus (COVID-19) RT-PCR Kit

Outbreak Background



> The 2019 novel coronavirus (COVID-19), which has been given the name severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), is causing an outbreak of respiratory disease called coronavirus disease (COVID-19).

> Coronaviruses are a large family of viruses that are enveloped single stranded positive sense RNA viruses which cause illnesses in both human and animals. The illness has ranged from common cold (e.g. respiratory syndrome, fever, cough, etc.) to more severe diseases such as pneumonia and severe acute respiratory syndrome.

WHO Guidance



> Collect the samples of upper respiratory tract (URT) and lower respiratory tract (LRT) then conduct the SARS-CoV-2 nucleic acid detection by RT-PCR.

Clinical Significance



> Rapid diagnosis: double target detection, zero error rate, suitable for laboratory
> Prevention & Control: providing proof for clinical diagnosis, treatment, transfer
> and recovery.



Merlin Biomedical (Xiamen) Co.,Ltd

Our Solution

Nucleic Acid Extraction



Novel Coronavirus (COVID-19) RT-PCR Kit



Fluorescence PCR



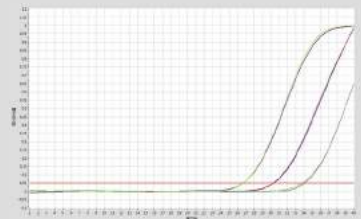
Molarray MA-6000 Real time fluorescence quantitative PCR instrument

Procedure Principle

- > The kit is based on real-time PCR method and technology of fluorescent probes to detect specific nucleic acid sequences of SARS-CoV-2 ORF1ab (open reading frame, ORF1ab) and N (Nucleoprotein, N) gene from human respiratory tract secretion samples which indicates the infection of the above pathogens.

Performance & Parameter

- > Packing Specification: 50T
- > Analytical Sensitivity: 500 copies/mL
- > Sample Type: bronchoalveolar lavage, nasopharyngeal and oropharyngeal swab, sputum



Product Advantage

- > Wide samples applicability
- > One step RT qPCR
- > Reliable result with Internal References through whole experiment process



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