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New Coronavirus Nucleic Acid - Detection Kit (RT-PCR METHOD)
(NC001)

Background

· December 30th, 2019: The Outbreak of "unknown cause of pneumonia occurred in Wuhan, and viral pneumonia was initially identified and the patients have been isolated for treatment.

· January 8th, 2020: Confirmed by the expert group, Wuhan "unknown cause of viral pneumonia" was initially determined as a new type of Coronavirus.

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Detection

Three conserved gene sequences of the viral genome were selected as the detection targets, which are OFR1ab gene (specific target) and N protein gene, respectively. It has been repeatedly verified by clinical trials that the two genes selected are highly specific for Pathogen identification.

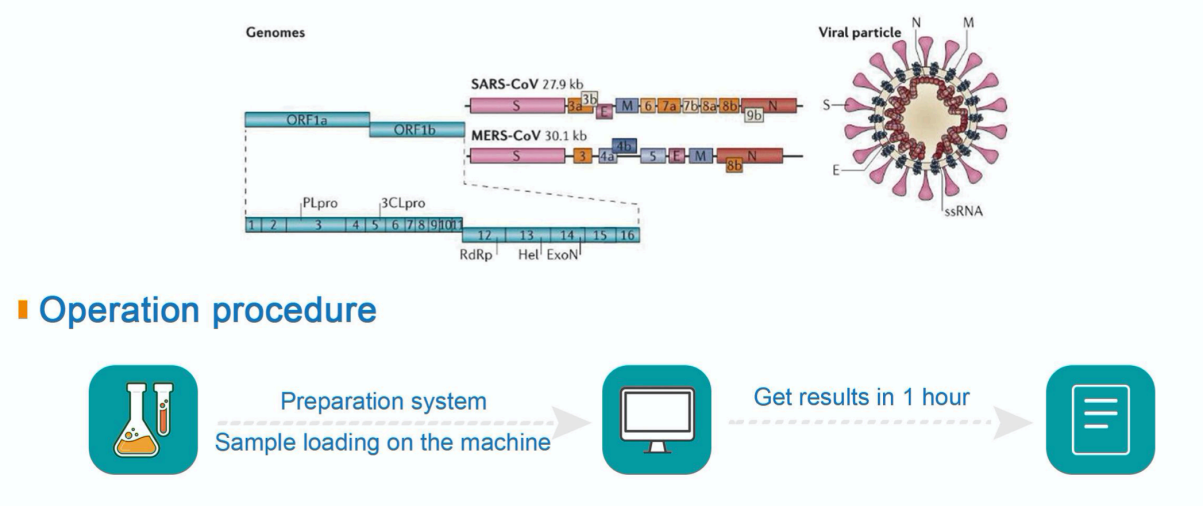
Product: NEW CORONAVIRUS (2019-NCOV-ORF1AB / N GENE) FLUORESCENCE -PCR DETECTION KIT (B7M01 / 50 TEST)

Usage:

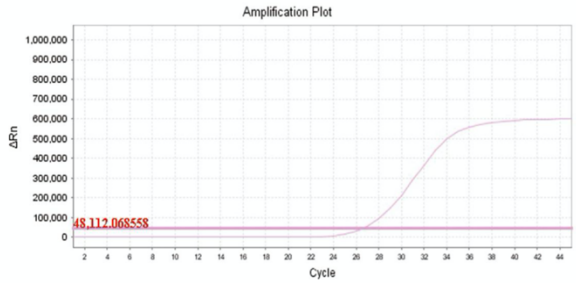
This kit is designed for invitro qualitative detection of the novel coronavirus genome open reading frame 1ab(ORF1ab) gene and the N gene of Nucleocapsid protein. Sample types include Pharynx swabs, Nasal swabs, Sputum and Alveolar lavage fluid samples. This kit can be used for auxiliary diagnosis and epidemiological surveillance of the SARS-CoV-2 infection.

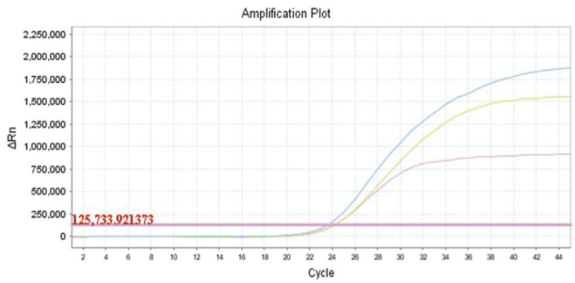
Target

The three-segment conserved gene sequences of the viral genome were selected as this detection target, which were the ORF1ab gene (specific target) and the N protein group, respectively. After repeated clinical trials, the two selected genes were highly specific to identify the pathogens.



Results display





Materials

Kit components	Main raw materials	Main Components
SARS-CoV-2 Reaction Buffer	5× Neoscript, RT Premix Buffer-ZJ4	KCl, MgCl, dNTPs, DNA polymerase, RNAase inhibitors
SARS-CoV-2 Primer Master	ORF1ab-F	/
	ORF1ab-R	/
	ORF1ab-P	/
	N-F	/
	N-R	/
	N-P	/
	RNase P-F	/
	RNase P-R	/
	RNase P-P	/
SARS-CoV-2 Enzyme mixture	25× Neoscript RTase mix (R)	Reverse transcriptase, DNA polymerase, RNase inhibitors
	Enzyme dilution	/
SARS-CoV-2 Negative Control	DEPC treated-water	/
SARS-CoV-2 Positive Control	Plasmid with New Coronary Virus 2019-nCoV-ORF1ab/N gene segment	/
SARS-CoV-2 Internal Control	Plasmid of human Ribonuclease P (RNase P) gene fragments	/

Storage:

Storage in the dark at -20c . Avoid repeated freezing and thawing. Tentative validity period of 6 months.