

Sethi Laboratories nCoV Real-Time Detection kit 2019 New Coronavirus (COVID-19)



The Sethi Laboratories nCoV Real-Time Detection kit is used for rapid identification and detection of novel coronavirus (2019-nCoV) nucleic acids in human nasopharyngeal swabs and throat swab samples. Coronavirus RNA was first transcribed into cDNA by reverse transcriptase, and then cDNA was used as a template for PCR amplification. The separation of the fluorophore and quencher makes the fluorescence signal detected by the instrument: FAM channel qualitative detection of the new coronavirus (COVID-19) ORF1ab gene, and JOE channel qualitative detection of coronavirus) E gene, and CY5 channel detection internal reference. The kit uses dUTP and UNG enzymes to prevent contamination of amplification products.

Applications

- Nasopharyngeal swab
- Bronchoalveolar lavage (BAL)
- Oropharyngeal swab
- Sputum

Compatibility

- LightCycler 480 (Roche)
- CFX96™ Dx System (Bio-Rad)
- Applied Biosystems 7500 Real-Time PCR Instrument System (Thermo Fisher Scientific)

Benefits

Fast & Easy	High Sensitivity & Specificity
<ul style="list-style-type: none"> • One tube reaction for identification and detection of 2019-nCoV • One-step Real-Time RT-PCR • Provide all reagents required for PCR 	<ul style="list-style-type: none"> • Designed according to “WHO interim guidance for laboratory testing for 2019 novel coronavirus (2019-nCoV) in humans” nCoV primers/probes (2019-nCoV) ORF1ab gene, E gene • Provide Internal controls

Key Components

	Components	Quantity	Test Dosage in each reaction
1	2019-nCoV Reaction Solution	750µl / vial x 2	14µl
2	RTase Mix	630µl / vial x 1	6µl
3	2019-nCoV Positive control	600µl / vial x 1	-
4	Negative control	600µl / vial x 1	-
5	Internal control A	525µl / vial x 1	5µl (Add with specimen) 0.5µl (Amplification directly)
6	ROX	55µl / vial x 1	0.5µl (for Applied Biosystems 7500)

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➤ Cycle Condition

Reaction	Temperature (°C)	Running time	Cycle
Reverse transcription	50°C	15 minutes	1
Initial denaturation	95°C	3 minutes	1
Pre-amplification	95°C	5 seconds	5
	60°C	40 seconds	
Amplification	95°C	5 seconds	40
	60°C	40 seconds	
	Collect the signals of FAM, JOE and CY5 fluorescence channels		



* FAM (ORF1ab gene), JOE (E gene), Cy5 (IC)

➤ Ordering Information

Cat no.	Product	Size
SL200618	Sethi nCoV Real-Time Detection Test Kit	96T

MEMO