

# STANDARD™ M nCoV Real-Time Detection kit 2019 New Coronavirus (COVID-19)

REF M-NCOV-01

STANDARD M 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 (RdRp) gene, and JOE (VIC or HEX) channel qualitative detection of coronavirus E gene, and CY5 channel detection internal reference.

## Applications

- Nasopharyngeal swab
- Sputum
- Oropharyngeal swab

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

## 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 (RdRp) gene), JOE\*/VIC/HEX (E gene), Cy5 (IC)



## ➤ Ordering Information

Cat no.	Product	Size
11NCO10	STANDARD M nCoV Real-Time Detection kit	96T