



Korea EUA Approved

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.

Information	Detail
Test time	Within 90 mins
Specimen	Nasopharyngeal swab, Oropharyngeal swab, Sputum
Storage temperature	-25~ -15°C/-13~ 5°F
Applicable machine	CFX96. ABI7500

- One tube reaction for identification and detection of 2019-nCoV
- One-step Real-Time RT-PCR
- Provide all reagents required for PCR
- Designed according to "WHO interim guidance for laboratory testing for 2019 novel coronavirus (2019-nCoV) in humans"
- nCoV primers/probes ORF1ab (RdRp) gene, E gene
- Provide Internal controls

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"> • 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 ORF1ab (RdRp) 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)

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). Cv5 (IC)