

BioCore 2019-nCoV Real Time PCR Kit

Product	Volume	Cat. No.	Method
BioCore 2019-nCoV Real Time PCR Kit	100 tests ~400 tests	BC01-0099	RT-PCR

DESCRIPTION

- Detection of Sars-CoV-2 with Reverse transcription Real-time PCR (TAT 2.0 hr)
- Amplify *N* gene and *RdRp(orflab)* gene of Sars-CoV2

AVAILABLE SAMPLE TYPE

- Sputum
- Oropharyngeal (OP) and nasopharyngeal (NP) swabs

SPECIFICATION

- 2019-nCoV RT PCR Reaction Mix
- 2019-nCoV RT PCR Primer/Probe Mix
- 2019-nCoV RT PCR Positive Control
- 2019-nCoV RT PCR Negative Control



ANALYTICAL PERFORMANCE

1. Limit of Detection (LOD)

In CFX96

Conc. (copies/ μ l)	Sars-CoV-2 RNA						
	1000	500	250	100	50	10	5
No. of Test	24	24	24	24	24	24	24
Positive No. of Sars-CoV-2	24	24	24	21	11	0	0
Positive rate (%)	100	100	100.0	87.5	45.8	0	0
95% Probit analysis	95% Probit analysis : 126.43 copies/ul (95% confidence interval: 95.36 ~ 263.13 copies/ul)						

2. Cross-reactivity in other microorganisms

(NA: not detected)

Strain	Result	Strain	Result	Strain	Result
1 Influenza virus A H1N1	NA	10 Corona Virus_HKU-1	NA	19 Adenovirus type 3	NA
2 Influenza virus A H3N2	NA	11 Metapneumovirus	NA	20 Adenovirus type 31	NA
3 Influenza virus A Pdm2009	NA	12 Rhinovirus A	NA	21 Coxsackievirus A3	NA
4 Influenza virus B	NA	13 Rhinovirus B	NA	22 Coxsackievirus B3	NA
5 RSV A2	NA	14 Parainfluenza virus 1	NA	23 Echovirus 6	NA
6 Rhinovirus 1A	NA	15 Parainfluenza virus 2	NA	24 Echovirus 7	NA
7 Corona Virus_229E	NA	16 Parainfluenza virus 3	NA	25 Enterovirus 68	NA
8 Corona Virus_OC43	NA	17 Parainfluenza virus 4	NA	26 Enterovirus 71	NA
9 Corona Virus_NL63	NA	18 Adenovirus type 1	NA		

CLINICAL PERFORMANCE

No.	Sample type	Clinical Sensitivity	Clinical Specificity
1	Sputum	100% 95% CI: 95.4-100.0	100% 95% CI: 95.4-100.0
2	OP and NP swabs	100% 95% CI: 95.4-100.0	100% 95% CI: 95.4-100.0

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BIOCORE

BIOCORE CO., LTD. Head office
8F, IT Mi-rae Tower, 33, Digital-ro 9-gil, Geumcheon-gu,
Seoul, Republic of Korea 08511
Tel.: +82-2-2027-6200

Fax: +82-2-2027-6299

BIOCORE CO., LTD. Biotechnology Div.
#605, ACE Techno Tower 5th, 20, Digital-ro 31-gil, Guro-gu,
Seoul, Republic of Korea 08511
Tel.: +82-2-2205-9942

Fax: +82-2-790-3929