



GB SARS-CoV-2 Real-Time RT-PCR Kit

For in-vitro Qualitative Detection of 2019-Novel Coronavirus in Human Respiratory Specimens

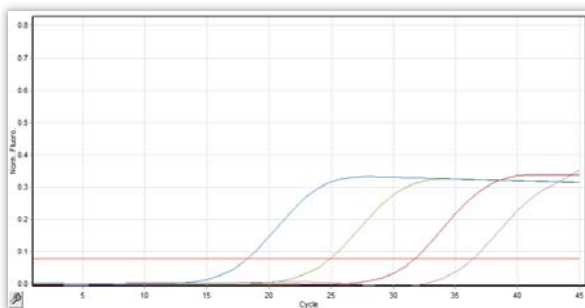


INTENDED USE

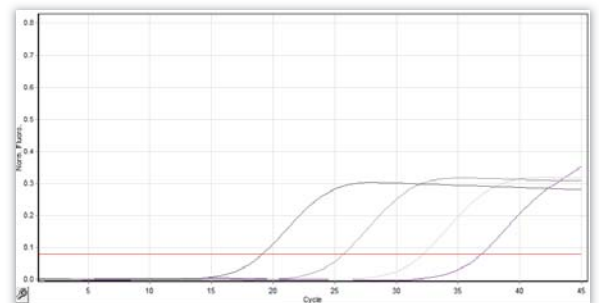
The GB SARS-CoV-2 Real-Time RT-PCR is an in vitro nucleic acid amplification test (NAT) for the qualitative detection of novel coronavirus (SARS-CoV-2) in the respiratory tract specimens (i.e., nasopharyngeal/oropharyngeal swabs, nasal swabs and mid-turbinate swabs specimens), utilizing Reverse Transcriptase Polymerase Chain Reaction (RT-PCR) and TaqMan probe technology. The design for this kit was based on the conserved region of E gene and ORF1ab region followed by the technical guidance of the World Health Organization (WHO) announcement.

PERFORMANCE

- Limit of Detection (LoD) : 5×10^2 copies/ml
- All serial dilutions of in-vitro transcription RNA of the target gene can be detected. (10^2 , 10^4 , 10^6 , 10^8 copies/ml < 37 Ct)
- Including IC (internal control) as an indicator of the RT-PCR performance, which can reduce the results of false-negative.



ORF1ab gene



E gene

PRODUCT INFORMATION

Test Principle	One-step real-time RT-PCR (TaqMan®-based detection) in one tube
Targets	E gene and ORF1ab region of SARS-CoV-2 (COVID-19)
Number of Tests	100T / Kit
Time to Results	1 ~ 1.5 hr
Specimen Type	Respiratory specimens (i.e., nasopharyngeal/oropharyngeal swabs, nasal swabs and mid-turbinate swabs specimens)
Instrument Required	Real-time PCR instrument with FAM, VIC and Texas Red detection channel.
Kit Storage	≤ -15 °C, avoid repeated freezing and thawing of kit contents
Compatibility	<ul style="list-style-type: none"> • Qiagen • Bio-Rad • Applied Biosystems Real-Time PCR Instrument System (Thermo Fisher Scientific) • Roche

REAGENTS SUPPLIED

Each kit provides reagents sufficient for performing 100 tests and consists of the following:

1. GB one-step Real-time RT-PCR reagent
2. Ready-to-use primer and probe mixture for E gene and ORF1ab region of SARS-CoV-2 in one tube.
3. Nuclease-free water
4. Positive Controls
5. Internal Controls

ORDERING INFORMATION

Catalog No.	Description	Package
4PCO052E	GB SARS-CoV-2 Real-Time RT-PCR	100 tests

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