

SARS-CoV-2 Nucleic Acid Rapid Detection Kit (Fluorescence RT-PCR)

Product Introduction

This kit is matched with QuantGene 9600 real-time quantitative fluorescence PCR instrument of Bioer Technology, and has the characteristics of rapid detection, good specificity and high sensitivity. The conserved region of SARS-CoV-2 genome (ORF1Ab and N genes) was selected to design 2 specific primers and probes. Different fluorescent groups were labeled on the probe to produce different fluorescence in the reaction system, so as to realize rapid detection.

Product Features

1

Fast and accurate: this kit only takes 35min for one reaction, and one step to complete RT-PCR, closed tube amplification and detection to prevent aerosol pollution.

2

Strong specificity: no cross reaction with similar respiratory viruses. The presence of blood, mucin and nasal secretions in the sample did not affect the test.

3

Strong applicability: suitable for human nasopharyngeal swabs and sputum.

4

High sensitivity: Three different batches of reagents were tested with a sensitivity of up to 200 copies/ml.

Specifications

Sample Type	Nasopharyngeal swabs and sputum
Sensitivity	200 copies/mL
Accuracy	CV < 5%
Detectability	In the same reaction tube, the SARS-CoV-2 ORF1Ab and N genes can be detected simultaneously by qualitative detection of SARS-CoV-2 nucleic acid with double targets.
Supporting Instruments	Specially for Bioer QuantGene 9600
Detection Time	35min
Storage Condition	-20 ± 5 °C avoid light

Application case

Application Case 1

Pseudovirus containing ORF1Ab and N genes of SARS-CoV-2 and pathogen cultures were extracted with Bioer MagaBio plus Virus DNA/RNA Purification Kit III and diluted according to a 10-fold gradient to detect.

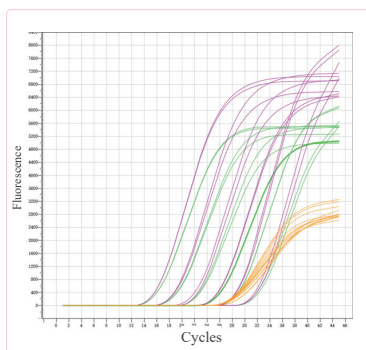


Figure 1 Pseudovirus of SARS-CoV-2

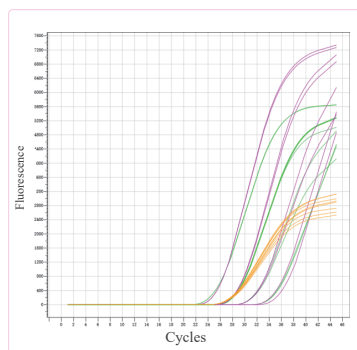


Figure 2 Nucleic acid of SARS-CoV-2 pathogen cultures

※ The results showed that the test of SARS-CoV-2 pseudovirus and the nucleic acid test of pathogen cultures both revealed that there was no interference between FAM, HEX and CY5.

Application Case 2

Pathogen cultures of SARS-CoV-2 were extracted with Bioer MagaBio plus Virus DNA/RNA Purification Kit III and diluted according to a 10-fold gradient to detect.

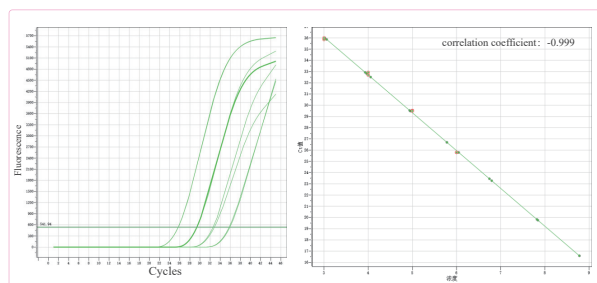


Figure 3 ORF1Ab gene of SARS-CoV-2

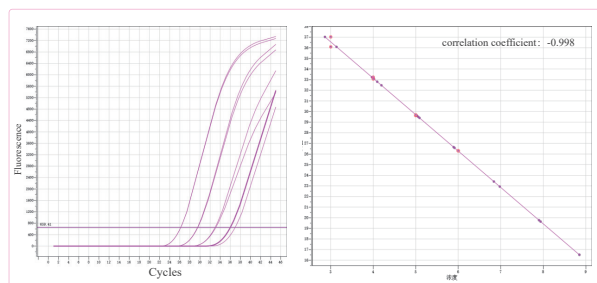


Figure 4 N gene of SARS-CoV-2

※ In the four gradients (every 10 times gradient dilution), the correlation coefficients of amplification were all above 0.995, 3, and the linear relationship was good.

Ordering Information

Product Name	Cat#	Package	Price	Kit Size
SARS-CoV-2 Nucleic Acid Rapid Detection Kit (Fluorescence RT-PCR)	BSJ21S1	24T	Inquiry	Storage:-20 ± 5 °C avoid light
	BSJ21M1	48T	Inquiry	Storage:-20 ± 5 °C avoid light



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