

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

Product introduction

SARS-CoV-2 Nucleic Acid Detection Kit (Fluorescence RT-PCR) is used for the qualitative detection of the SARS-CoV-2 nucleic acid in specimens of nasopharyngeal swabs, oropharyngeal swabs and sputum specimens from suspected cases. This kit selects the novel coronavirus 2019-nCoV Orf1ab and N gene fragments for primer and fluorescent probe design, and has excellent specificity. During the detection process, the human β -Globin gene is introduced as non-competitive internal control which can monitor the quality of the entire extraction and detection process to prevent invalid detection. RT-PCR reaction solution is pre-mixed, easy to operate, convenient and efficient.

Product features

Stable and efficient

Efficient hot start enzyme with strong stability

Specific and precise

Duplex detection of new coronavirus ORF1ab and N genes reducing the risk of missed detection

Full monitoring

Using of internal reference genes for quality control avoid false negative results

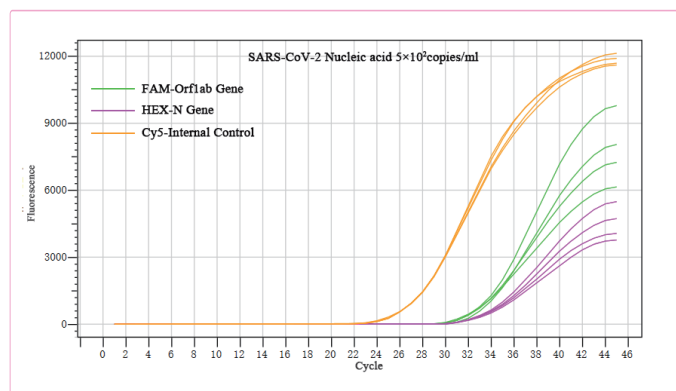
High sensitivity

Sensitivity up to 500copies / ml



Good stability at lower limit concentration detection

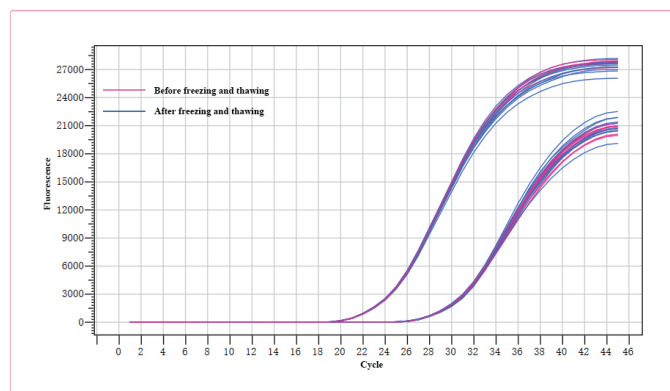
2019-nCoV virus nucleic acid sample at concentration of 5×10^2 copies / ml, tested using the Bioer SARS-CoV-2 Nucleic Acid Detection Kit to test the stability of the lower limit detection concentration. All samples were detected, with good consistency, indicating that the kit has good stability at the lower limit.



Stability test at the lower limit

Excellent freeze-thaw stability

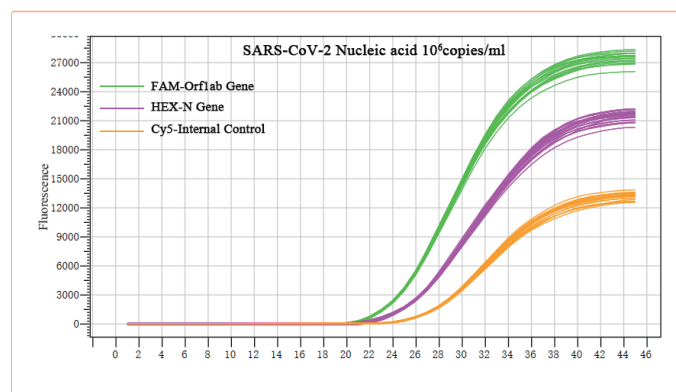
Preparing two groups of Bioer SARS-CoV-2 Nucleic Acid Detection Kit - one group was stored at constant -20°C ; the other group was repeatedly frozen and thawed 5 times. Test the two groups of kits, and result shows that the template concentration was 10^6 copies / ml and 10^4 copies / ml. The amplification result showed a smooth S-shaped curve, and there was no significant difference between the freeze-thaw reagent and the well-preserved reagent, indicating that the kit has good freeze-thaw stability.



Freeze-thaw stability test

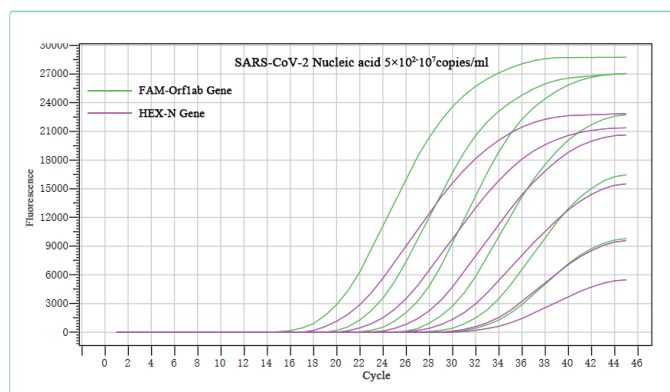
Excellent uniformity

Fifteen 2019-nCoV virus nucleic acid templates at a concentration of 10^6 copies / ml were tested with the Bioer SARS-CoV-2 Nucleic Acid Detection Kit, indicating that all three fluorescence channels have good uniformity.



Wide linear range and high sensitivity

Dilute 2019-nCoV virus nucleic acid template with known gradient concentration from 500 to 10^7 copies/ml. Test result with Bioer SARS-CoV-2 Nucleic Acid Detection Kit shows that the product has good linearity and detection sensitivity.



Product name	Cat#	Specification
SARS-CoV-2 Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ16S1	24T
SARS-CoV-2 Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ16M1	48T
SARS-CoV-2 Nucleic Acid Detection Kit (Fluorescence RT-PCR)	BSJ16L1	500T



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