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● Interpretation of Results

Amplification Plot

Legend: ■ S ■ N ■ ORF1ab ■ HRP
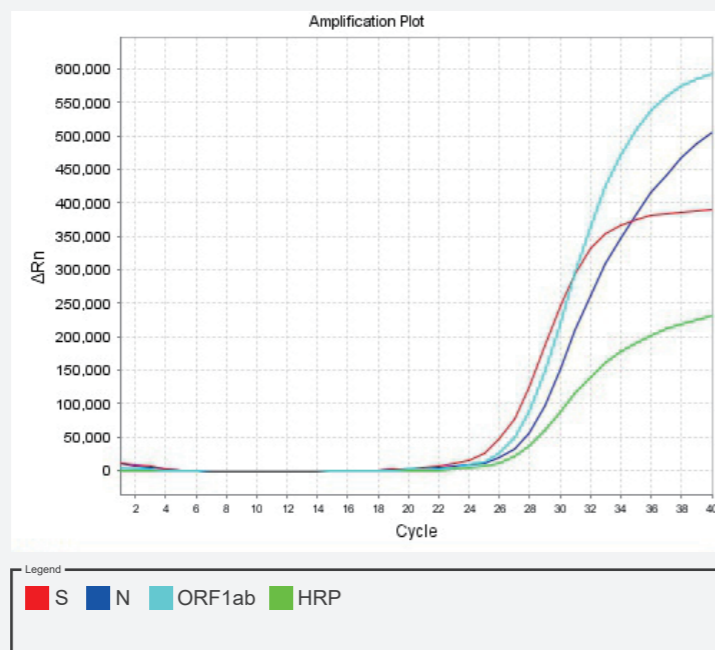
*More details in Instructions

• References

Chan JF, Yip CC, To KK, et al. Improved Molecular Diagnosis of COVID-19 by the Novel, Highly Sensitive and Specific COVID-19-RdRp/Hel Real-Time Reverse Transcription-PCR Assay Validated In Vitro and with Clinical Specimens. J Clin Microbiol. 2020;58(5):e00310-20. Published 2020 Apr 23. doi:10.1128/JCM.00310-20.

Version 2.0

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Novel Coronavirus (2019-nCoV) Nucleic Acid Detection Kit (RT-PCR)

EXCEED IN QUALITY AND MORE

● Features

Sample type: Throat swab and sputum

Compositions: Buffer, Enzyme Mix, Positive & Negative control

Size: 48,96 T/Kit

Storage: -20 ± 5 ℃

Shelf life: 12 months

● Performance

Detection limit: 200 copies/mL

Precision: CV ≤5%

Negative & positive reference products coincidence rate: 100%.

Duration: ~80min (RNA→results)

Applicable instrument: Real-time fluorescent quantitative PCR instrument with FAM, VIC (HEX / JOE), ROX and Cy5 channels (e.g. ABI 7500, ViiATM 7, QuantStudio 7 flex, Roche Lightcycler 480, Agilent Mx3000P/3005P, SLAN-96S, Bio-Rad CFX96 Touch™/iQ™5)

● Principle

RT-PCR

One-step Real-time Polymerase Chain Reaction

Target gene: ORF1ab, N and S genes

1. Increase the sensitivity[1]
2. Specific primers and fluorescent probes
3. Endogenous internal standard detection system

dsDNA template

DNA probe

3′

5′

DNA probe

Primer annealing

3′

5′

5′

5′

3′

Primer extension

3′

5′

5′

3′

🔴 Quenched fluorophone

🟣 Excited state fluorophone

🔴 Taq polymerase

Comprehensive

From sampling, nucleic acid extraction to PCR amplification

Reliable

ORF1ab, N and S genes increase the sensitivity

Fast

RNA→Result~80min

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Novel Coronavirus (2019-nCoV) Nucleic Acid Detection Kit (RT -PCR)

QC
PASSED

REF 9211401
48T/kit
LOT 20200605
20200605
20210604

-25℃～-15℃

CE EC REP IVD

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PN:P04.03.108075-00

MADE IN CHINA

● Process
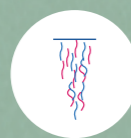
Sample processing ▶ PCR System Preparation ▶ RT-PCR Amplification ▶ Software Analysis