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Corona Virus Disease 2019 (CoViD-19) Nucleic Acid Detection Kit (Real-Time PCR Method).

Fast and accurate reliable guarantee for clinical diagnosis!



Product Usage

This kit is used for the qualitative detection of the Corona virus Disease 2019 (CoViD-19) ORF1ab and N genes in vitro, helping clinicians to confirm whether suspected patients have COVID-19 infection.

Epidemiology



- The sources of infection seen so far are mainly patients with new type of coronavirus infection, and asymptomatic patients may become the source of infection.
- Based on current epidemiological investigations, the incubation period is 1 to 14 days, mostly 3 to 7 days. Fever, fatigue, and dry cough are the main manifestations. Few patients have symptoms such as nasal congestion, runny nose, sore throat, and diarrhea, loss of taste, loss of olfaction.

Key Features

Product Name	Corona Virus Disease 2019 (CoViD-19) Nucleic Acid Detection Kit
Method	Real-Time PCR Method
Gene Target	ORF1ab and N genes
Sample Type	Upper respiratory tract specimen: Nasopharyngeal fluids, Nasal swabs; Lower respiratory tract specimen: Sputum, Bronchoalveolar lavage, Tracheal aspirate.
Verified LOD (Copies/mL)	500
Average Ct (Lowest dilution 10/10)	35-36
Clinical Sensitivity	100% (95%CI:93, 100)
Clinical specificity	99% (95%CI:95, 100)
Manufacturer Recommended Ct Cut-off	Positive: ≤ 40 Negative: > 40
Thermocycler Run Time	110 minutes
PCR Platform (Thermocycler)	Most 3 channel thermocycler devices such ABI7500 & QuantStudio (Thermo Fisher), Applied Biosystems, Bio-Rad, Agilent (MX-3000), MGITech, LighCycler 480II & Z480 (Roche), SLAN-96S thermocycler series and other quantitative fluorescence PCR platforms with FAM, HEX and Cy5 fluorescence detection channel.

Clinical Significance

The nucleic acid test is the gold standard for the CoViD-19 diagnosis in suspected patients.

Other Characteristics

Accurate results:



This kit contains an internal standard to avoid false negative results and ensure the accuracy of the test results.

High sensitivity:



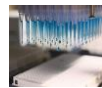
The minimum detection baseline is 500 copies/mL, which ensures the detection of low virus content sample results.

Anti-pollution:



The principle of "One-step" PCR technology reduces reaction time and avoids aerosol pollution.

High-throughput:



Triple PCR reaction system, high detection flux, timely and rapid completion of multiple sample detection.

Reference

- [1] "New Coronavirus Pneumonia Infection Diagnosis and Treatment Plan (Trial Version 5)"
- [2] "National Health Commission General Office's Plan for the Prevention and Control of Pneumonia caused by New Coronavirus Infection (Third Edition)" (National Health Office CDC [2020] No. 80) "
- [3] Clinical management of severe acute respiratory infection when novel coronavirus (nCoV) infection is suspected. WHO.2020.
- [4] Diagnostic detection of Wuhan coronavirus 2019 by real-time RT-PCR.2020

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