



SARS-CoV-2 Coronavirus Multiplex RT-qPCR Kit (CD019RT)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	non-specific interference of Influenza A Virus (H1N1), Influenza B Virus (Yamagata), Respiratory Syncytial Virus (type B), Respiratory Adenovirus (type 3, type 7), Parainfluenza Virus (type 2), Mycoplasma Pneumoniae, Chlamydia Pneumoniae, etc.
Species Reactivity	Human
Application	,Qualitative,
Size	100T ⁺
Storage	All reagents should be stored at -30°C~-15°C with protection from light. The reagents are stable for 12 months when stored at the recommended condition. The expiration date will not change if the kit is opened and stored at the recommended condition. The expiration date will not change if the kit is transported with ice-packs for 4 days and/or treated with 10 freeze-thaw cycles.
Intended Use	This product is intended for the detection of 2019-Novel Coronavirus (2019-nCoV). The detection result of this product is <i>only for clinical reference</i> , and it should not be used as the only evidence for clinical diagnosis and treatment.
Principles of Testing	This product is a dual-color multiplex fluorescent probe-based Taqman® RT-qPCR assay system. The Taqman fluorescent probe is a specific oligonucleotide based on a reporter-quencher mechanism. For each probe, the 5'-end is labeled with a fluorophore, while the 3'-end was labeled with a quencher. When the probe is intact, the fluorescence emitted by the fluorophore is absorbed by the quencher, and no fluorescent signal is detected. However, during amplification of the template, the probe will be degraded due to the 5'-3' exonuclease activity of Taq DNA polymerase, and the fluorescent reporter and the quencher are cleaved and separated, then a fluorescent signal can be detected. The generation of each molecular amplicon is accompanied by the generation of a fluorescent signal. Real-time monitoring of the entire PCR process can be assessed by monitoring the accumulation of fluorescent signals. This product provides dual-detections of two independent genes of 2019-nCoV in a single tube. Specific primers and probes were designed for the detection of conserved region of 2019-nCoV's

