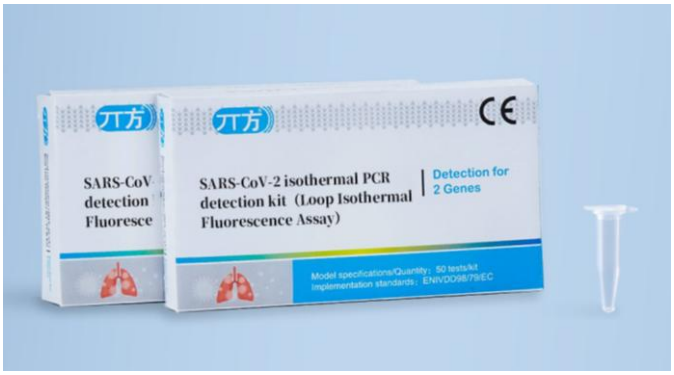
SARS-CoV-2 isothermal PCR detection kit (Loop Isothermal Fluorescence Assay)

Application



Detection of the nucleic acid specific sites (orf1ab, N gene) of the COVID-19 in the sample

Principle

Reverse transcription and amplification of RNA carried out in the same PCR tube. Nucleic acid of 2019-nCoV specifically identified by 4 primer, any primer mismatched, or could not pair and could not complete the amplification and detection.

Advantages

1、**Easy to operate：All reactions take place in the same tube, easy to operate, learn, and understand, no complex training is needed;**

2、**Isothermal amplification：Rapid detection is achievable without temperature dependent amplification;**

3、**Strict internal control: Strictly quality control of the products according to WHO requirements to avoid false positive results;**

4、**Internal standard monitoring: Real time internal standard monitoring to avoid the risk of false negative;**

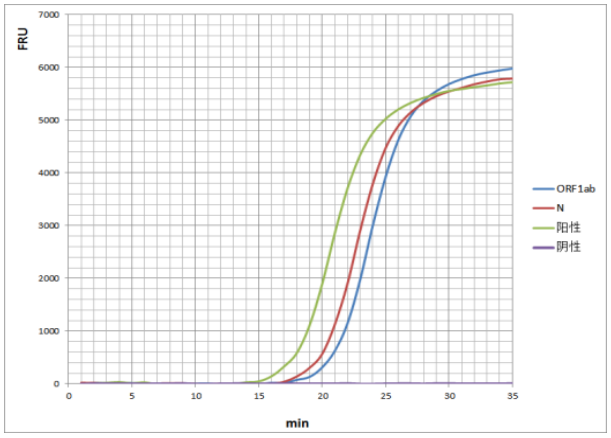
5、**Rapid detection: The detection can be completed within 40 minutes;**

Procedures

Sample collection → Add 2μ L of sample to the reaction tube → Run the test

Note：See the operation video for more details.

Case analysis



	Amplification curve	
Determination of the sample results	ORF1ab reaction agent	N reaction agent
2019-nCoV Positive result	+	+
	+	−
	−	+
2019-nCoV Negative result	−	−

Note：The non-specific amplification of isothermal amplification technology used in this kit is lower than that of PCR technology, so if the detection result of a single gene in this kit is "+", the clinical sample will be considered as positive.