

Qexp-MDx Direct SARS-CoV-2 Detection Kit

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) belongs to the beta-coronavirus family, a group of **single-positive-strand RNA** viruses with envelopes. Coronavirus was named since its crown-like appearance observed under an electron microscope. They are infectious commonly between humans and animals. Currently, there are seven species known to infect humans: HCoV-229E, HCoV-NL63, HCoV-HKU1, HCoV-OC43, SARS-CoV, MERS-CoV, and **SARS-CoV-2**. According to the WHO announcement, the disease caused by SARS-CoV-2 is called **COVID-19 (Coronavirus Disease-2019)**.

GLOBAL epidemic of SARS-CoV-2

As of Nov 29, 2021, there have been a total of 260,446,893 reported cases in 195 countries/regions, including 5,207,502 deaths. Since the genetic material of the virus is a single-stranded RNA, which is more likely to mutate while replication. Today, many mutant strains have appeared, include the more infectious variants: the United Kingdom (B.1.1.7), South Africa (B.1.351), Brazil (P.1), and recently reported new mutant strain Omicron (B.1.1.529). Omicron has been listed as a variant of concern (VOC) by the WHO, as of Nov 28, at least 13 countries have reported more than 100 cases.

SYNDROME of COVID-19

The human SARS-CoV-2 were the results of infection by direct or indirect contact with secretions or droplets from carriers. According to WHO, the incubation period is about 1 to 14 days, and the carriers become infectious 2 days before symptoms. The symptoms include fever, dry cough, fatigue, shortness of breath, muscle aches, headaches, sore throat, etc. A few severe cases will have severe pneumonia, respiratory distress or organ failure, and even death. Nucleic acid testing is the first choice for testing (also the use of an antigen kit). Currently, supportive therapies are mostly used for treatment and life-sustaining treatment for severe cases.

3 STEPs complete diagnosis

Sample Collection

Nasal



Icons made by Smashicons from Flaticon

Direct PCR

Qamp_{mini} Thermal Cycler

- ✓ Pre-program chip
- ✓ One-button start!
- ✓ Save time!
- ✓ Easy to use!



Results Analysis

Qsep Series Fragment Analyzer



Q-Analyzer

- 1 ✓ User-friendly
- 2 ✓ 3 steps complete
- 3 ✓ Automated reporting

Qexp-MDx Direct SARS-CoV-2 Detection Kit "Features"

Extraction Free Direct PCR

No need for nucleotide extraction
Start PCR after simple lysis
Save time and make it easier to operate

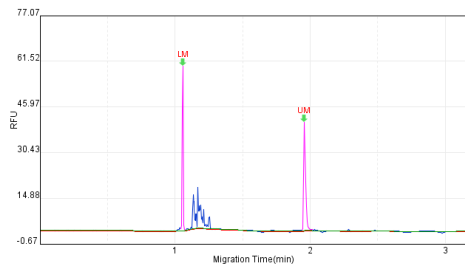


Multiple Targets

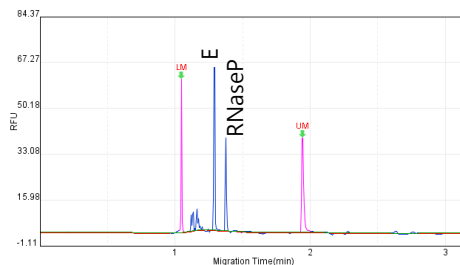
Multiplex PCR in one tube

Qsep series-Fragments Analyzer

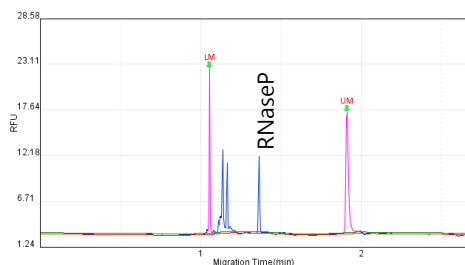
NTC (no template control)



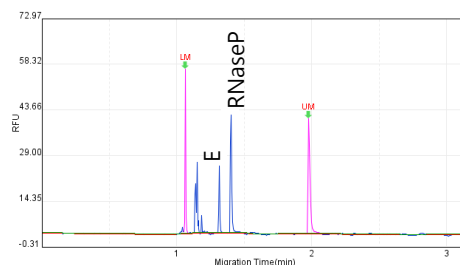
PC (positive control)



Negative



Positive



Order Information

Catalog No.	Product	Unit
C903501-010	Qexp-MDx Direct SARS-CoV-2 Detection Kit	10 rxn
C903501-020		20 rxn
C903501-050		50 rxn
C903501-100		100 rxn
C903501-200		200 rxn
C903502-010	Qexp-MDx Direct Saliva SARS-CoV-2 Detection Kit	10 rxn
C903502-020		20 rxn
C903502-050		50 rxn
C903502-100		100 rxn
C903502-200		200 rxn

