Solutions for Genetic Technologies

CE IVD

Ordering information for relative Products

Name of Kits	Cat. No.	Detection Method
DiaPlexQ ™ SARS-CoV-2 (N, ORF1a, RdRp) Fast Detection Kit	SQD59-K100	
DiaPlexQ ™ Novel Coronavirus (2019-nCoV) Detection Kit	SQD52-K100	
DiaPlexQ ™ COVID-19 (N, ORF1a) Detection Kit	SQD56-K100	
DiaPlexQ ™ Flu A/B & SARS-CoV-2 Detection Kit	SQD57-K100	Real-Time RT-PCR
DiaPlexQ ™ RV16 Detection Kit	SQD50-K100	
DiaPlexQ ™ PneumoPatho 16 Detection Kit	SQD80-K100	
DiaPlexQ ™ MTC/NTM Detection Kit - Ver 3.0	SQD25-K100	

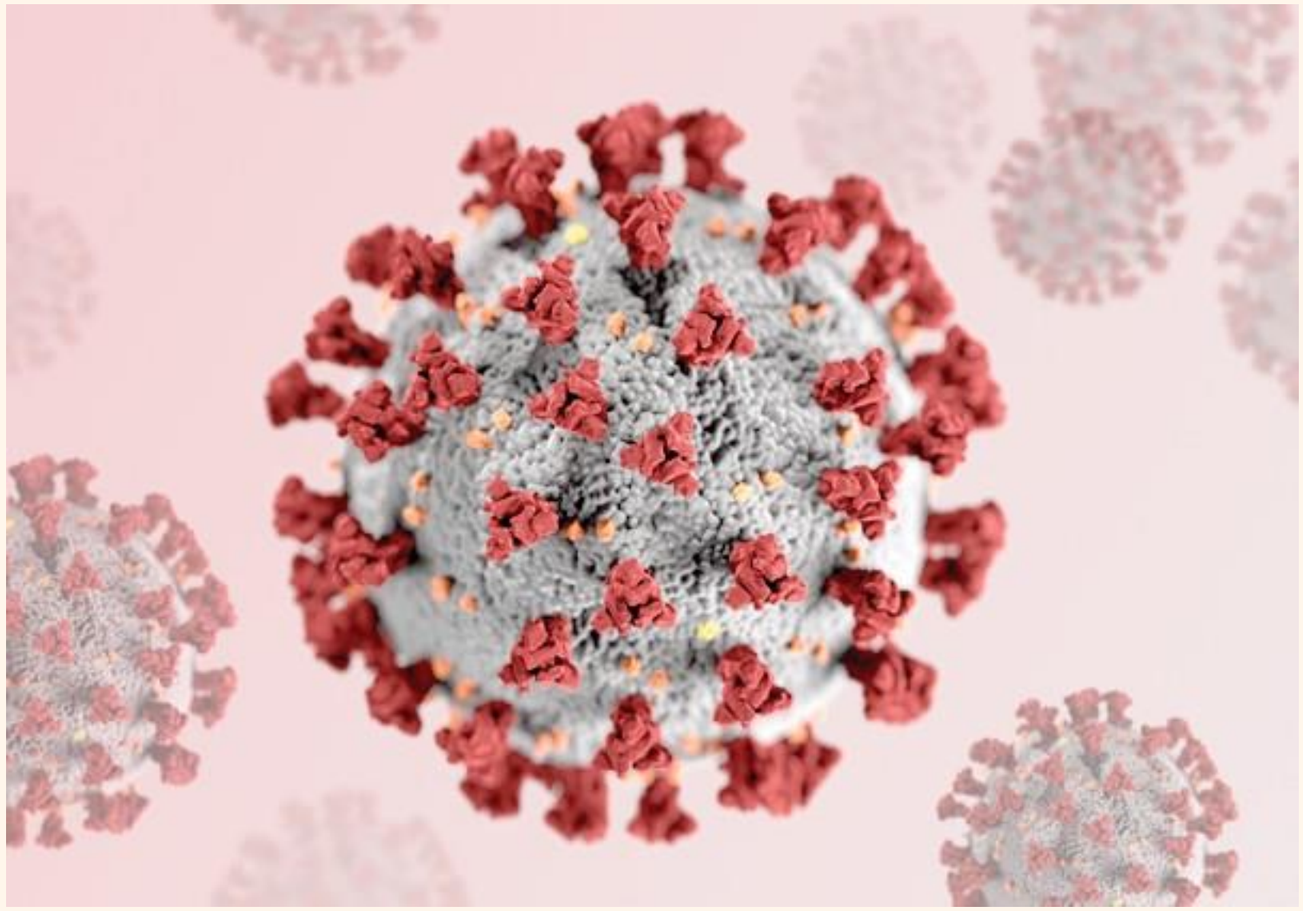
- for export

DiaPlexQ ™ SARS-CoV-2 (N, ORF1a, RdRp) Fast Detection Kit

- ☑ Fast Version
- ☑ 3 Targets (+ Internal Control)
- ☑ Running Time : within 40 min
- ☑ Cat. No. : SQD59-K100

SARS-CoV-2

DiaP exQ ™ SARS CoV 2 (N, ORF1a, RdRp) Fast Detection Kit



GMP

DiaPlexQ™SARS–CoV–2 (N, ORF1a, RdRp) Fast Detection Kit

Coronavirus is a virus that can infect animals and humans.There are six known corona viruses that can infect humans. Four of them are known as virueses that cause diseases such as the common cold, and the other two are MERS–CoV(Middle East Respiratory Syndrome Coronavirus) and SARS–CoV(Severe Acute Respiratory Syndrome Coronavirus), which have been fatal to humans.

COVID–19 has also been infected and transmitted in humans, with a 14–day incubation period, which has been reported to have a lower mortality rate and a higher incidence than SARS–CoV or MERS–CoV. Sequencing of the virus revealed that the new coronavirus was 89.1% similar to bat–derived SARS(bat–derived severe acute repiratory syndrome (SARS)–like coronaviruses, bat–SL–CoVZC45, bat–SL–CoVZXC21), and 79% similar to SARS–CoV (SARS, Severe Acute Respiratory Syndrome).

Feature

- Hot Start PCR : high specificity
- OneStep PCR : multiple targets in a single reaction
- Reliable system : Internal Control (RNase P)
- Easy–to–use master mix : just adding template and Primer/Probe Mix
- Fast detection : OneStep RT–qPCR
- CE–IVD marked
- 3 targets(+Internal Control)
- Running time : within 40 min

Detection Target

- ORF1a gene
- N gene
- RdRp gene

Specimen Type

- nasopharyngeal swabs
- oropharyngeal (throat) swabs
- anterior nasal swabs
- mid turbinate nasal swabs
- nasal aspirates
- nasal washes
- bronchoalveolar lavage (BAL) fluid
- sputum

Process

Sample collection
- Depending on the type of specimen

Nucleic acid isolation
- Manual method
- Auto extraction Method

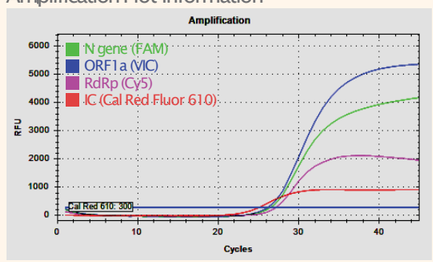
Multiplex OneStep RT-qPCR
- *DiaPlexQ*™ SARS–CoV–2 (N, ORF1a, RdRp) Fast Detection Kit

Data analysis
- Use of software for each instrument

Data Analysis

- *DiaPlexQ*™SARS–CoV–2 (N, ORF1a, RdRp) Fast Detection Kit

Amplification Plot Information



Probe for fluorescence

Target	5' Fluorophore	3' Quencher
N gene	FAM	BHQ1
ORF1a	VIC	BHQ1
RdRp	Cy5	BHQ3
Internal control	Cal Fluor Red 610*/ ROX*	BHQ2

– CFX96™ Dx System : Cal Fluor Red 610
– QuantStudio 5 Real–Time PCR Instrument : ROX

Applicable instruments

- QuantStudio 5 Real–Time PCR Instrument (Running time : about 37 min)
- CFX96™ Dx System (Running time : about 46 min)