



DiaPlexQ™ Novel Coronavirus (2019-nCoV) Detection Kit CE-IVD RealTime One Step RT-PCR based assay system for detection of 2019-nCoV CE-IVD

DiaPlexQ™ Novel Coronavirus(2019-nCov) Detection Kit is CE-IVD reagent.

It is screening kit to detect Novel Corona Virus - 2019-nCoV from isolated total RNA. Kit's basic principle is Real-time PCR method, which is able to detect specific target gene in the total RNA. It provides every necessary component for PCR reaction, Thus, customer can do without additional reagent.

OneStep RT-PCR contents are progressively applied for one tube RT (Reverse Transcription) reaction and PCR amplification. The nucleic acid amplification result is monitored based on real time condition through the amplification plot.

The Control Template (2019-nCov) is provided as a positive control for easier clinical sample data comparison analysis.

CONTENTS AND COMPONENTS

| components | SQD52-K020 | SQD52-K100 |
|--|---------------|---------------|
| 2X OneStep qRT-PCR Buffer (2019-nCoV) | 200 ul x 1 ea | 1.0 ml x 1ea |
| OneStep qRT-PCR Enzyme mix (2019-nCoV) | 40 ul x 1 ea | 200 ul x 1 ea |
| Primer & Probe Mixture (2019-nCoV) | 60 ul x 1 ea | 300 ul x 1 ea |
| Control Template (2019-nCoV) | 20 ul x 1 ea | 100 ul x 1 ea |
| RNase Free Water | 200 ul x 1 ea | 1.0 ml x 1 ea |

SPECIFICATIONS

| | |
|-------------------------|--|
| Target region | Orf1a, N gene |
| Detection technology | Real-Time OneStep RT-qPCR |
| Specimen type | Nasopharyngeal swab, Oropharyngeal swab, Sputum |
| Compatible instruments* | CFX96™ Real-Time PCR System (Bio-Rad) |
| | ABI 7500 / 7500 Fast Real-Time PCR System (Applied Biosystems) |
| PCR running time | ~ 120 mins |

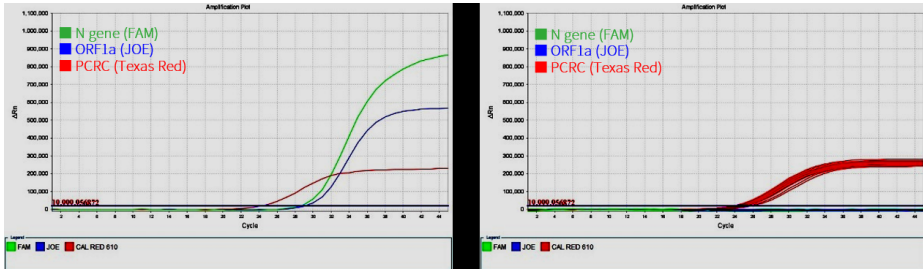
KEY FEATURES

- Simple & Rapid detection system: OneStep Multiplex RT-qPCR based detection
- HotStart PCR: high-specificity
- Reliable system: automatic PCR control (not Internal control)
- Easy-to-use master mix: just adding template and Primer/Probe Mix
- Positive control included (Plasmid)

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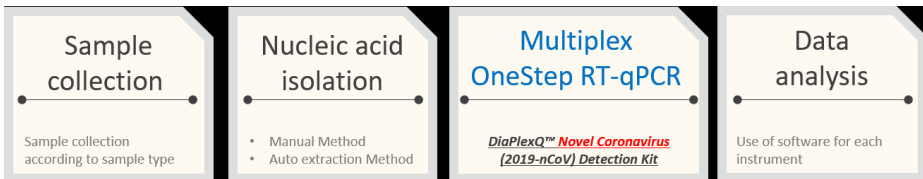
Sample Result



| Types | 5' Fluorophore | 3' Quencher |
|-------------|------------------------------|-------------|
| N gene | FAM | BHQ1 |
| orf1a | VIC/JOE* | BHQ1 |
| PCR control | Texas Red/Cal Fluor Red 610* | BHQ2 |

*ABI 7500 / 7500 Fast: JOE, Texas Red | Bio Rad CFX96™: VIC, Cal Fluor Red 610

Example



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