

COVID-19 Real Time PCR Kits

COVID-19
CORONAVIRUS

T.C. Sağlık Bakanlığı Onaylı



COVID-19 Real Time PCR Kits are probe-based real-time PCR tests designed for the qualitative detection of SARS-CoV-2 Coronavirus, the etiological agent of COVID-2019. The S-gene and ORF1ab-gene are amplified in the virus genome with the specific primers and fluorescently labeled probes after cDNA synthesis with a reverse transcriptase enzyme from the isolated viral RNA.

Gene sequences amplified multiplex in one tube; S-gene is detected with FAM channel, ORF1ab-gene is detected with Texas Red channel and GAPDH-gene (internal control) is detected with HEX channel.

- The virus is detected in the lower respiratory tract samples (bronchoalveolar lavage, sputum, tracheal aspirate) and in the upper respiratory tract samples (nasopharyngeal fluids and swap).
- It does not cross-react with other types of CoV (HCov-229E, -NL63, -OC43 and 'HKU1, MERS-CoV).
- Clinical analytical sensitivity is 2x10² copies/ml.

SARS-CoV-2 OneStep RT-PCR Kit (S-Gene)

S-gene (FAM) of isolated virus RNA is detected by real time PCR. There is NO isolation step in the kit, it works with isolated RNA. GAPDH gene (HEX) is used as internal control.

SARS-CoV-2 OneStep RT-PCR Kit (S-/ORF1ab-Gene)

S-gene (FAM) ve ORF1ab-gene (Texas Red) of isolated virus RNA is detected by real time PCR.

There is NO isolation step in the kit, it works with isolated RNA. GAPDH gene (HEX) is used as internal control.

S- (FAM) ve ORF1ab- (TexasRed) genes are analysed in one tube as multiplex.

SARS-CoV-2 Direct OneStep RT-PCR Kit (S-/ORF1ab-Gene)

The kit includes the extraction step from the samples. After 10 minutes extraction step of swab/VTM samples,

S- and ORF1ab genes are detection by real time PCR. GAPDH gene (HEX) is used as internal control.

S- (FAM) ve ORF1ab- (TexasRed) genes are analysed in one tube as multiplex.