## **DIATHEVA COVID-19** PCR Kit

Molecular test for the qualitative detection of SARS-CoV-2 RNA in upper and lower respiratory samples

# DIATHEVA COVID-19 **PCR** Kit

in upper and lower respiratory samples



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## Molecular test for the qualitative detection of SARS-CoV-2 RNA CEIVD

COVID-19 is an infectious disease triggered by the SARS-CoV-2 virus. The incubation period of this virus, i.e. the time that elapses from when you come into contact with the virus to when the symptoms of the disease occur, varies from 1 to 14 days, most commonly it is about 5 days.

The most common symptoms are: fever, tiredness and dry cough. These symptoms are generally mild to moderate in intensity and gradually manifest themselves. Some infected people do not develop any symptoms (asymptomatic). About 1 in 6 infected, on the other hand, becomes seriously ill and has difficulty breathing.



DIATHEVA COVID-19 PCR Kit allows the qualitative detection of SARS-CoV-2 RNA in upper and lower respiratory samples during the acute phase of infection. Positive results are indicative of the

presence of SARS-CoV-2 RNA; clinical correlation with patient history and other diagnostic information is necessary to determine patient infection status. Positive results do not rule out bacterial infection or co-infection with other viruses.

Negative results do not preclude SARS-CoV-2 infection and should not be used as the sole basis for patient management decisions. Negative results must be combined with clinical observations, patient history, and epidemiological observations. Testing with the kit is intended for use by laboratory trained personnel in the technique of real-time PCR and in vitro diagnostic procedures.

#### Principle of the assay

**DIATHEVA COVID-19 PCR Kit** is a One-step real-time reverse transcription (RT-PCR) multiplex assay based on use of fluorescent-labelled probes used to confirm the presence of SARS-CoV-2 RNA by the amplification of targets ORF1b and N.

The test allows the simultaneous detection of the RNAse P endogenous gene used as a positive control to evaluate the success of the RNA extraction and identify the presence of PCR inhibitors.

### Workflow



#### Kit di nuova generazione:

- Two specific SARS-CoV-2 targets for: ORF1b and N
- Higher reproducibility of results from low viral load samples
- Maximum stability of the endogenous internal control
- Correct COVID-19 diagnosis also in cases of patients infected with the English, Brazilian or South African virus variants.

#### Benefits

- Ease of use: minimal hands-on time
- Results: less than 2 hours after extraction
- Reaction set-up at room temperature
- Compatibility: highly consistent results on various real-time instruments
- Reliability: the amplification of the internal control RNAse P allows to evaluate the quality of the RNA extraction and identify the presence of PCR inhibitors





#### 5. Results analysis



#### **Ordering information**

Product Code	Product Description	Size
D-MBK0100	DIATHEVA COVID-19 PCR KIT	96 tests

