



EXPERTTEAM



l'esperienza in
biologia molecolare

EXPERT COVID-19 KIT 1-RQ Ref. CO.01RQ

INTRODUCTION:

SARS-CoV-2 is the new coronavirus identified as the cause of coronavirus disease (COVID-19) that originated in Wuhan, Hubei province in China, in late 2019 and then spread around the world. Person-to-person spread occurs through contact with infected secretions, mainly through contact with large respiratory droplets, but can also occur through contact with a surface contaminated with respiratory droplets.

Within the first semester of 2020 SARS-CoV-2 pandemic led more than 700.000 people to death, confirming the need for fast and reliable diagnostic solutions.

PRINCIPLE OF THE PROCEDURE:

The *EXPERT Covid-19 kit 1-RQ* is a real-time RT-PCR assay for the qualitative determination of Sars-CoV-2 RNA from respiratory samples of subjects who meet clinical and /or epidemiological criteria of COVID-19.

The *EXPERT Covid-19 kit 1-RQ* is based on the retro-transcription of SARS-CoV2 viral RNA extracted from respiratory clinical samples and the subsequent one-step real time PCR. SARS-CoV2 virus-specific oligonucleotides and probes were drawn on the viral nucleocapsid (N) gene and envelope (E) gene. The panel used in the kit consists of a *Sarbecovirus*-specific E gene probe/primer set and a SARS-CoV-2 specific N gene probe/primer set for virus detection. An additional set is used for the amplification of the human RNase P (RP) gene as Internal Control. The kit also contains a Sars-CoV-2 RNA positive control.

SPECIFICATIONS

- Based on CDC guidelines for 2019-nCoV
- Internal extraction control (Rnase P gene)
- CE mark
- Sars-CoV-2 RNA as positive control
- Results within 2 hours
- Compatible with Applied Biosystems® QS5, 7300/7500/7900, Step One/Step One Plus, Rotorgen Q (Qiagen) and CFX96 (Biorad)



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