

## VIASURE SARS-CoV-2 (N1 + N2) Real Time PCR Detection Kit

Human-to-human transmission of the **SARS-CoV-2** has been confirmed, even in the incubation period without symptoms, and the virus causes severe respiratory illness like those SARS-CoV produced. Although the pneumonia is the principal illness associated, a few patients have developed severe pneumonia, pulmonary edema, acute respiratory distress syndrome, or multiple organ failure and death.

Centers of Disease Control and Prevention (CDC) believes that symptoms of **SARS-CoV-2** may appear in as few as 2 days or as long as 14 days after exposure, being the most common fever, cough, myalgia and dyspnea. Less common symptoms are sore throat, headache, diarrhea and vomiting. It seems that older males with comorbidities have been more affected.

Diagnosis of **SARS-CoV-2** is performed detecting conventional causes of pneumonia early and detected by nextgeneration sequencing or real-time RT-PCR methods. Several assays that detect the **SARS-CoV-2** have been are currently available, such as China CDC (gene targets, ORF1ab and N), Charité – Germany (gene targets, RdRP and E) or US CDC (two targets in N gene).

**In December 2019, some people that worked at or lived around the Huanan seafood market in Wuhan, Hubei Province, China, have presented pneumonia of unknown cause. Deep sequencing analysis of the respiratory samples indicated a novel coronavirus, which was named firstly 2019 novel coronavirus (2019-nCoV) and lately SARS-CoV-2.**



"Ready & Easy-to-use" kits.  
**Lyophilised product**



Transport and storage at **room temperature**.  
**Shelf-life: 24 months**



Validated according to **ISO 13485**  
and **CE marked**



## VIASURE SARS-CoV-2 (N1 + N2) Real Time PCR Detection Kit

VIASURE SARS-CoV-2 (N1 + N2) Real Time PCR Detection Kit is designed for the diagnosis of SARS-CoV-2 in respiratory samples.

The detection is done in one step real time RT format where the reverse transcription and the subsequent amplification of specific target sequence occur in the same reaction well. The isolated RNA target is transcribed generating complementary DNA by reverse transcriptase which is followed by the amplification of two conserved regions of N gene (N1 and N2) for SARS-CoV-2 using specific primers and a fluorescent-labeled probe.

VIASURE SARS-CoV-2 (N1 + N2) Real Time PCR Detection Kit has a detection limit of 10 genome copies per reaction for SARS-CoV-2 (N2 target) and 20 genome copies per reaction SARS-CoV-2 (N1 target).

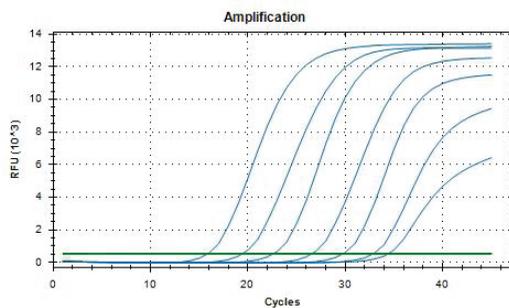


Figure 1.

Figure 1.

Dilution series of N2 target ( $10^7$ - $10^1$  copies/rxn) template run on the Bio-Rad CFX96™ Real-Time PCR Detection System (FAM channel).

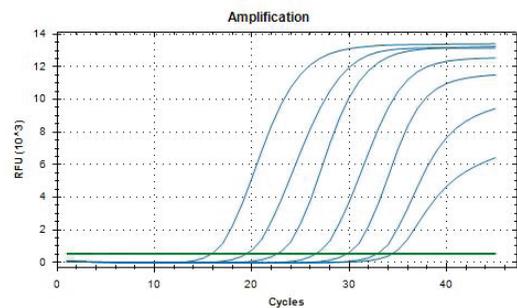


Figure 2.

Figure 2.

Dilution series of N1 target ( $10^7$ - $10^1$  copies/rxn) template run on the Bio-Rad CFX96™ Real-Time PCR Detection System (Cy5 channel).

### References. VIASURE SARS-CoV-2, Flu & RSV Real Time PCR Detection Kit

- 6 x 8-well strips, low profile \_\_\_\_\_ VS-NCO306L
- 6 x 8-well strips, high profile \_\_\_\_\_ VS-NCO306H
- 12 x 8-well strips, low profile \_\_\_\_\_ VS-NCO312L
- 12 x 8-well strips, high profile \_\_\_\_\_ VS-NCO312H
- 96-well plate, low profile \_\_\_\_\_ VS-NCO313L
- 96-well plate, high profile \_\_\_\_\_ VS-NCO313H
- 9 x 4-well strips, Rotor-Gene® \_\_\_\_\_ VS-NCO336
- 18 x 4-well strips, Rotor-Gene® \_\_\_\_\_ VS-NCO372



For more information and use procedure, read the instructions for use included in this product.



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9bWjpc z7 5' -%( ' \*  
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VIASURE/NCO3-1020EN