

## Purpose of use

gb SARS-CoV-2 Multiplex kit enables detection of SARS-CoV-2 virus (Wuhan coronavirus 2019). Detection is based on the viral E and RdRP genes. The assessment originates from protocol published by Charité laboratory (Berlin) and Institut Pasteur laboratory (Paris), and uses our own proprietary technology of GEMINI™ probes.

## Principle of detection

The test is based on multiplex one-step RT-qPCR method. The analysis is performed using fluorescently labelled probes, which allow the detection of viral gene E in a FAM channel, viral gene RdRP in a HEX channel and external positive control in a Cy5 channel. The kit contains all the necessary components to perform the test.

## Available products

Cat. No.	Product	rxn
3231-050	gb SARS-CoV-2 Multiplex	50
3231-200	gb SARS-CoV-2 Multiplex	200
3231-500	gb SARS-CoV-2 Multiplex	500

CE IVD one-step RT-qPCR kit contains reagents to provide 50/200/500 reactions (20 µl volume of each reaction).

## Parameters of the diagnostic kit

- CE IVD one-step RT-qPCR kit
- multiplex assay targeting the viral E gene (FAM channel), the viral RdRP gene (HEX channel) and the External Positive Control (Cy5 channel)
- positive and negative control for analysis validity confirmation
- technology of GEMINI™ probes for high detection sensitivity
- external positive control (EPC) for RNA extraction procedure verification
- LOD of multiplex assay is 2.13 copies of viral RNA per reaction (95% CI)
- identical temperature profile for all SARS-CoV-2 detection kits

## Content of the diagnostic kit

* Component <sup>1)</sup>	Volume	Qty <sup>2)</sup>	Conc.
<span style="color: green;">●</span> Assay CoV-2 E-RdRP	0.5 ml <sup>3)</sup>	2	4x
<span style="color: blue;">●</span> Master Mix OneStep Multi	1.0 ml <sup>3)</sup>	2	2x
<span style="color: red;">●</span> Positive Control CoV-2	0.2 ml	1	4x
<span style="color: yellow;">●</span> EPC Template RNA	1.0 ml	2	
<span style="color: grey;">●</span> Deionized Water	1.0 ml	1	

1) tube lid colour corresponds to reagent type

2) the quantity given for the package of 200 reactions

3) volume equates to 100 PCR reactions of 20 µl volume



## Validated for cyclers

- CFX96/96Touch (Bio-Rad)
- QuantStudio 5 (Applied Biosystems)
- RG 3000 (Corbett Research)

