

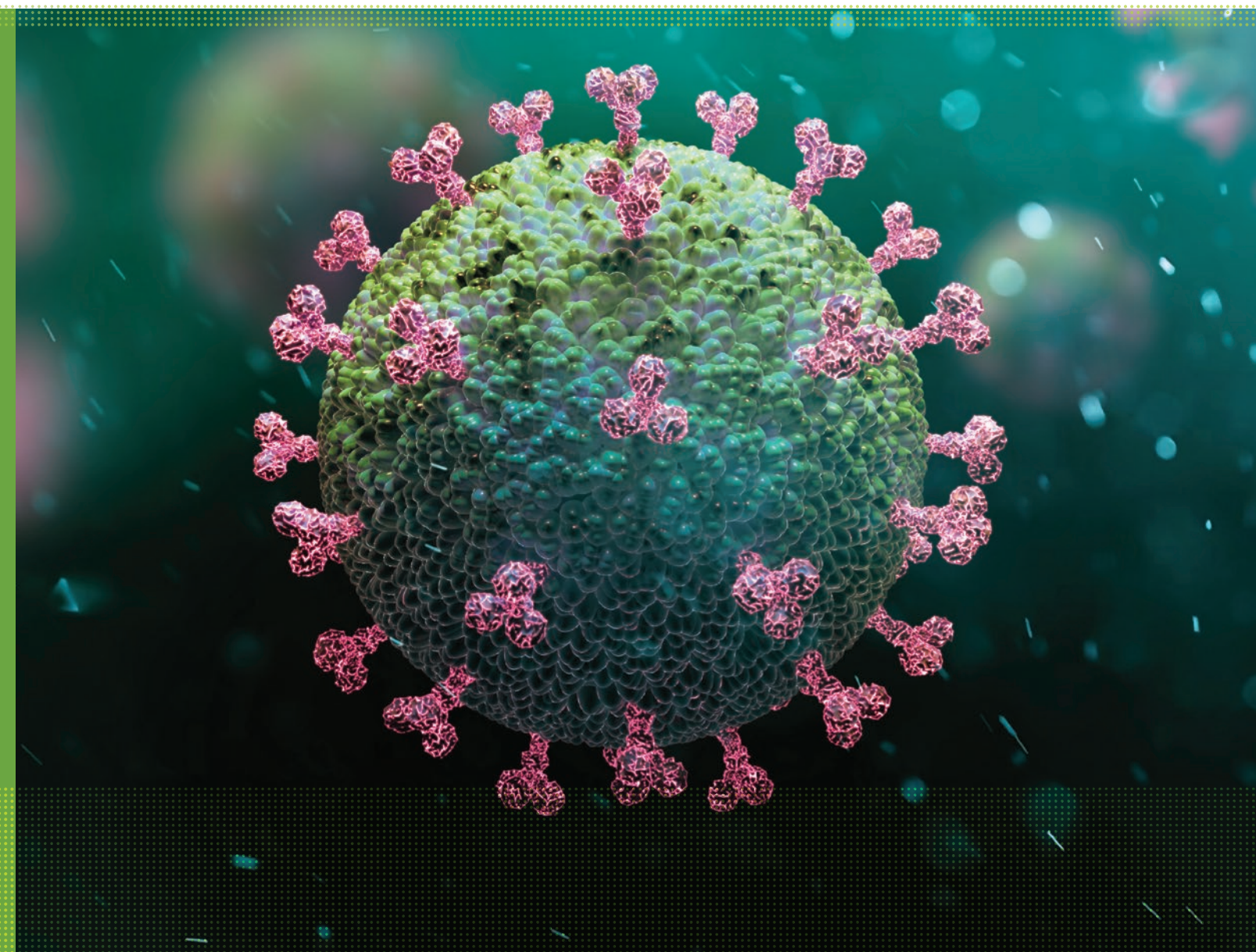


# SARS-CoV-2 Surface Kit

Molecular test for the qualitative detection of  
SARS-CoV-2 RNA from environmental surfaces

## SARS-CoV-2 Surface Kit

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SARS-CoV-2 RNA from environmental surfaces



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Coronaviruses are a large family of viruses that are common in people and many different species of animals. In December 2019, a cluster of patients with a novel coronavirus was identified in Wuhan, China. The virus named SARS-CoV-2 can cause the disease named Covid-19.

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.



Data collected from recent studies related to the persistence of SARS-CoV-2 on surfaces demonstrate the ability of this virus to persist on materials such as fabric and wood up to 24 hours, plastic and stainless steel up to 72 hours.

SARS-CoV-2 Surface Kit allows the qualitative detection of SARS-CoV-2 RNA from environmental surfaces.

According to the World Health Organization, the transmission of coronavirus infections, including SARS-CoV-2, occurs through droplets, that have a diameter of  $\geq 5 \mu\text{m}$ . Due to their size, the droplets travel in the air for short distances, generally less than one meter, and can directly reach susceptible subjects in the immediate proximity, as well as settling on objects or surfaces that therefore become a source of spread of the virus.

The recent instructions on the management of the COVID-19 emergency require environmental sanitization operations aimed at containing the human contagion.

In business and commercial establishments, services and various places, periodic sanitation of environments, workstations, other areas and items must be ensured.

This test is therefore useful for evaluating the effectiveness of the sanitization process.

### Principle of the assay

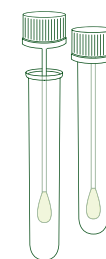
SARS-CoV-2 Surface Kit has been designed according to WHO guidelines for surface analysis. It is a one-step real-time reverse transcription (RT-PCR) multiplex assay based on fluorescent-labelled probes used to confirm the presence of SARS-CoV-2 RNA by amplification of RdRp gene.

The method allows to include a synthetic RNA process control to evaluate RNA extraction and identify the presence of PCR inhibitors.

The kit provides all the reagents required for the analysis. PCR positive and negative controls are also included.

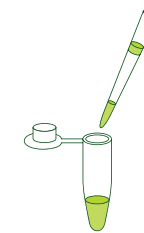
## Workflow

### 1. Sample collection



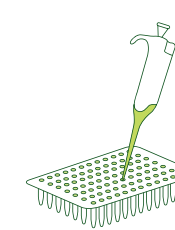
25 cm<sup>2</sup> surface sampling by using a swab

### 2. RNA extraction



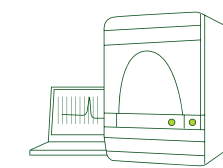
Add Internal Process Control and proceed with RNA extraction

### 3. RT-PCR set-up



Add RNA sample and controls to PCR tubes containing amplification reagents

### 4. RT-PCR



RT-PCR amplification

### 5. Results analysis



### Benefits

- Ease of use: minimal hands-on time
- Results: less than 2 hours after extraction
- Reaction set-up at room temperature
- Compatible with various Real-Time PCR instruments (FAM/VIC)
- The presence of the synthetic RNA process control allows to evaluate the quality of the RNA extraction and identify the presence of PCR inhibitors.

### Ordering information

Code	Product	Size
MBK0092	SARS-CoV-2 Surface Kit	96 tests

