

Quick-Start Protocol

SARS-CoV-2 Positive Control

The SARS-CoV-2 Positive Control (cat. no. 222010) is intended for molecular biology application for epidemiological research using RT-PCR. The Positive Control should be stored upon receipt at -30 to -15°C . When stored correctly, the SARS-CoV-2 Positive Control is good until the expiration date printed on the kit box lid. Prevent multiple freeze–thaw cycles. This might influence the intactness of the Positive Control.

Further information

- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.qiagen.com

Each tube contains a synthetic double-stranded DNA fragment. The DNA fragment has been resuspended in a Tris-Cl buffer to a final concentration of 40 copies per microliter. A 114 base pair long sequence of this fragment is homolog to the SARS-CoV-2 wild-type sequence, positions 28262 to 28375 (GenBank Sequence ID: OU491692.1). This fragment can be amplified and detected by using the 2019-nCoV_N1 primer and probe design published by CDC (<https://www.cdc.gov/coronavirus/2019-ncov/lab/rt-pcr-panel-primer-probes.html>).

To achieve a final concentration of 16 copies per microliter in the PCR reaction, refer to the table below for the required volume of the Positive Control.

Total reaction volume	20 µl	25 µl	50 µl
Positive Control volume	8 µl	10 µl	20 µl
Other components volume	12 µl	15 µl	30 µl

Note: Always follow the reaction setup and cycling condition by the suppliers of your RT-PCR chemistries and PCR cyclers to ensure best performance.

Document Revision History

Date	Changes
10/2021	Initial release

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