

Quick-Start Protocol

SARS-CoV-2 N1+N2 Assay Kits

The SARS-CoV-2 N1+N2 Assay Kits (cat. nos. 222015 and 222017) are intended for molecular biology application for epidemiological research using RT-PCR.

Further information

- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: [support.qiagen.com](mailto:support@qiagen.com)

Each tube contains primer probes for detection of SARS-CoV-2 based on the CDC design (<https://www.cdc.gov/coronavirus/2019-ncov/lab/rt-pcr-panel-primer-probes.html>), targeting the genes N1 and N2 of the viral genome. The two probes are coupled with FAM™ as the reporter dye and use ZEN™ quenchers (see the table in the next page).

Each tube from the SARS-CoV-2 N1+N2 Assay Kits contains a mixture of four primers and two probes purified by HPLC at a 20x concentration. Therefore, only 1 µl of the assay is needed per 20 µl reaction. Each tube contains 600 µl for 600 reactions.

	Concentration in 20x PPM [μ M]	Final concentration per reaction [μ M]	Sequence
2019-nCoV_N1-F	16	0.8	GAC CCC AAA ATC AGC GAA AT
2019-nCoV_N1-R	16	0.8	TCT GGT TAC TGC CAG TTG AAT CTG
2019-nCoV_N2-F	16	0.8	TTA CAA ACA TTG GCC GCA AA
2019-nCoV_N2-R	16	0.8	GCG CGA CAT TCC GAA GAA
2019-nCoV_N1-P	5	0.25	FAM-ACC CCG CAT /ZEN/ TAC GTT TGG TGG ACC-3IABkFQ
2019-nCoV_N2-P	5	0.25	FAM-ACA ATT TGC /ZEN/ CCC CAG CGC TTC AG-3IABkFQ

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
10/2020	Initial release

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.

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