

*\*Update 18.06.2020:  
The RdRP primers have been  
modified! The 4BLqSARS-CoV-2  
RNA remains applicable!*

## 4BLqSARS-CoV-2-RNA (# CO301001)

50 µL, 1E+06 RNA copies/µL

**Product description:** Synthetic RNA control (500 nt) for the detection of SARS-CoV-2 by RT-qPCR. The RNA molecule serves as an external positive control for RT-PCR for the detection of SARS-CoV-2 RNA. It contains all binding sites of the primer and probe sequences of the Charité and CDC protocols as well as the modifications of the RdRP primers from June 18, 2020 (see Table 1 to 3).

Table 1: Primer and probe sequences for the detection of SARS-CoV-2 by RT-PCR (Charité: Diagnostic detection of 2019-nCoV by real-time RT-PCR, 17. Jan. 2020)

E_Sarbeco_F1	ACA GGT ACG TTA ATA GTT AAT AGC GT
E_Sarbeco_R2	ATA TTG CAG CAG TAC GCA CAC A
E_Sarbeco_P1	ACA CTA GCC ATC CTT ACT GCG CTT CG
RdRP_SARsR-F2	GTG ARA TGG TCA TGT GTG GCG G
RdRP_SARsR-R1	CAR ATG TTA AAS ACA CTA TTA GCA TA
RdRP_SARsR-P1	CCA GGT GGW ACR TCA TCM GGT GAT GC
RdRP_SARsR-P2	CAG GTG GAA CCT CAT CAG GAG ATG C

Table 2: Modified Primer sequences\* for amplification of the RdRP-Gen of SARS-CoV-2 (Muenchhoff M, et al., Euro Surveill. 2020;25(24):pii=2001057/1560-7917.ES.2020.25.24.2001057)

Modified RdRP-F	AAA TGG TCA TGT GTG GCG GT
Modified RdRP-R	GTT AAA AAC ACT ATT AGC ATA AGC AGT TGT

Table 3: Primer and probe sequences for the detection of SARS-CoV-2 by RT-PCR (CDC: 2019-Novel Coronavirus (2019-nCoV) Real-time RT-PCR Panel Primers and Probes, 24. Jan. 2020)

2019-nCoV_N1-F_CDC	GAC CCC AAA ATC AGC GAA AT
2019-nCoV_N1-R_CDC	TCT GGT TAC TGC CAG TTG AAT CTG
2019-nCoV_N1-P_CDC	ACC CCG CAT TAC GTT TGG TGG ACC
2019-nCoV_N2-F_CDC	TTA CAA ACA TTG GCC GCA AA
2019-nCoV_N2-R_CDC	GCG CGA CAT TCC GAA GAA
2019-nCoV_N2-P_CDC	ACA ATT TGC CCC CAG CGC TTC AG
2019-nCoV_N3-F_CDC	GGG AGC CTT GAA TAC ACC AAA A
2019-nCoV_N3-R_CDC	TGT AGC ACG ATT GCA GCA TTG
2019-nCoV_N3-P_CDC	AYC ACA TTG GCA CCC GCA ATC CTG

**Contains:** 50 µL 4BLqSARS-CoV2-RNA, concentration: 1E+06 copies/µl

**Storage:** @ -70°C.