



rTEST COVID-19 qPCR kit

MULTIPLEXED ROOM TEMPERATURE STABLE SARS-COV-2 DETECTION KIT

The rTEST COVID-19 qPCR kit is an innovative, novel and proprietary version of the WHO-recommended Charité, Berlin protocol.

The kit contains two sets of primers and TaqMan® probes targeting the SARS-CoV-2 specific E and RdRP genes multiplexed with human RNase P. E and RdRP genes are detected in FAM channel and RNase P in HEX, JOE or VIC channel. This enables multiplexed detection of SARS-CoV-2 (confirmation of positive COVID-19) and human RNA, which can be used for secondary confirmation of negative samples to eliminate false-negative results as well as validation of sample collection and RNA extraction.

For E and RdRP genes, we developed dual TaqMan® probes to increase the sensitivity and specificity of our 1-Step RT-qPCR method.

The 5X One-step Probe CoV Mix (ROX) reagent from Solis BioDyne includes ROX passive reference dye with a unique molecular structure allowing our RT-qPCR method to be compatible with all ROX-dependent and ROX-independent real-time PCR cyclers.

A single kit is sufficient for 400 test reactions. It offers flexibility in testing by permitting either single gene screening or precision dual gene diagnostics. E or RdRP gene (based on the end-user preference) can be exclusively used for 400 screening tests. This option is recommended when many symptomatic patients have to be screened at once. The precision dual gene option is based on running 200 screening assays first (e.g., E gene) followed by 200 confirmation assays to confirm positive screening results (e.g., RdRP gene) or eliminate false-positive results. For the precision dual gene diagnostics, if necessary, two testing reactions should be performed per one patient.



MAIN FEATURES:

- At least one-month **room temperature stability**
- Improved sensitivity of RdRP and E assays **multiplexed** with RNase P assay as an internal control
- Innovative **dual TaqMan® probes**
- SARS-CoV-2 full genomic RNA spiked with human RNA used as a positive control
- 100% clinical accuracy and specificity for SARS-CoV-2
- Great **compatibility**
- 100% analytical sensitivity with 2 RNA copies/rxn
- Validated on real clinical samples
- No cold chain shipping needed