

# SOLIScript® SARS-CoV-2 RT-qPCR Multiplex Assay Kit 2.0 (RUO)

NEW!

**Full RUO kit - highly sensitive for detecting all variants of concern including Omicron**



Some applications of this product may require a license which is not provided by the purchase of this product.

**For research use only.**

The SOLIScript® SARS-CoV-2 RT-qPCR Multiplex Assay Kit 2.0 is optimized for one-step RT-qPCR detection of SARS-CoV-2 viral RNA in RNA samples extracted from nasopharyngeal swabs, bronchoalveolar lavage, sputum, or any other respiratory sample.

The kit is designed for multiplex detection of three distinct regions in the SARS-CoV-2 genome - the Nucleocapsid (N), Envelope (E) and RNA-dependent RNA polymerase (RdRP) genes; and the internal control - the human RNase P transcript (RPP30), all in a single reaction

High specificity – targets 3 highly conserved regions of SARS-CoV-2 genome.

Great analytical sensitivity – the limit of detection (LoD) of 5-10 viral RNA copies per reaction.

Tested and confirmed in clinical setting.

Suitable for screening – pooling of up to 5 samples without loss in sensitivity.

Excellent for high throughput workflow.

Fast results – one-step RT-qPCR test results in one hour.

**Your fast track to IVD solution!** Send your request for bulk formats and/or for OEM solutions [here!](#)

IVD option also available [here!](#)

## Ordering

Choose Product Size

100 | 100 x 20 µl rxn

250 rxn | 250 x 20 µl rxn

REQUEST FOR BULK SIZE

## Reagents Provided

Item	Pcs.	Vial size
40x One-step SOLIScript® CoV Mix	1	100 rxn   50 µl
5x One-step Probe CoV Mix	1	100 rxn   400 µl
20x SARS-CoV-2 Primer/Probe Mix (N/E/RdRP/RP)	1	100 rxn   100 µl
SARS-CoV-2 Positive Control (N/E/RdRP)	1	80 µl
Water, nuclease free	1	1.25 ml

## Description

SOLIScript® SARS-CoV-2 RT-qPCR Multiplex Assay Kit 2.0 is a multiplex assay optimized for RT-qPCR detection of SARS-CoV-2 viral RNA extracted from clinical samples or extracted from any other sample containing SARS-CoV-2 viral RNA. Clinical specimen processing should be performed in accordance with pertaining national biological safety regulations and following the recommended World Health Organization (WHO) guidelines on biosafety and biosecurity. The kit is based on SOLIScript® 1-step CoV Kit.

SOLIScript® SARS-CoV-2 RT-qPCR Multiplex Assay Kit 2.0 is designed for simultaneous detection of three distinct regions in SARS-CoV-2 genome: Nucleocapsid gene (N, detected in FAM channel), Envelope gene (E, VIC/HEX/JOE channel) and RNA-dependent RNA polymerase gene (RdRP, Cal Red 610/ROX/Texas Red channel), as well as human RNase P transcript (RPP30, Quasar 670/Cy5 channel).

Human RNase P primers and probe set is designed to detect exclusively mRNA transcripts (genomic DNA is not amplified) and serves as an internal control to monitor sample quality and RT-qPCR amplification.

The kit includes the proprietary in-silico designed SOLIScript® Reverse Transcriptase characterized by enhanced ability to tolerate higher temperature (up to 65°C). It also contains an RNase Inhibitor RiboGrip™ to protect RNA samples from degradation. HOT FIREPol® DNA polymerase is a chemically blocked hot-start polymerase activated by a 10 min incubation step at 95°C.

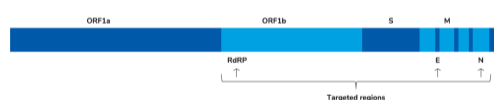


Figure 1. Multiplex Assay Kit targets

		CE-IVD Certified Comparator		
		Positive	Negative	Total
SOLIScript® SARS-CoV-2 RT-qPCR Multiplex Assay Kit	Positive	52	0	52
	Negative	0	24	24
	Total	52	24	76

Positive Percent Agreement (95% CI) = 100% (93.15% - 100%)

Negative Percent Agreement (95% CI) = 100% (85.75% - 100%)

Table 1. Clinical agreement study

## Properties

**Sample type:** RNA

**Product format:** Reagent kit with primers and probes for SARS-CoV-2 detection

**Detection type:** Probe-based

**Reference dye:** not included

**Regulatory status:** RUO - Research Use Only

**Compatible real-time instruments:** Most qPCR platforms.

## Reagents

**40x One-step SOLIScript® CoV Mix with SOLIScript® Reverse Transcriptase and RiboGrip™ RNase Inhibitor**

**5x One-step Probe CoV Mix** with HOT FIREPol® DNA polymerase, reaction buffer, dNTPs, 15 mM MgCl<sub>2</sub> (1x qPCR solution - 3 mM MgCl<sub>2</sub>)

**20x SARS-CoV-2 Primer/Probe Mix (N/E/RdRP/RP)** designed for SARS-CoV-2 regions in N (FAM channel), E (VIC/HEX/JOE channel), RdRP (Cal Red 610/ROX/Texas Red channel) genes, as well as human RNase P mRNA transcripts (Quasar 670/Cy5 channel)

**SARS-CoV-2 positive control (N/E/RdRP)**

**Water, nuclease free**

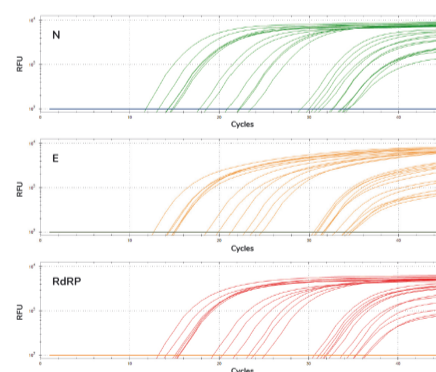


Figure 2. Performance validated using clinical samples

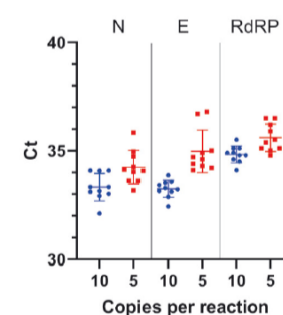


Figure 3. Highly sensitive detection of three viral targets with LoD 5-10 copies/reaction

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