



# Quantitative Synthetic SARS-CoV-2 RNA: Spike 5'

VR-3277SD™

## Description

Quantitative synthetic SARS-CoV-2 RNA: Spike 5' can be used for assay development, verification, and validation as well as monitoring of day-to-day test variation and lot-to-lot performance of molecular-based assays. The quantitative format allows for the generation of a standard curve for quantitative PCR (qPCR) to determine viral load.

This preparation includes a fragment from the 5' glycoprotein (Spike) region.

**Organism:** Severe acute respiratory syndrome-related coronavirus 2, SARS-CoV-2

**Genetic target:** Preparation includes a fragment from the 5' Glycoprotein (Spike) region

**Specification range:**  $\geq 1 \times 10^5$  to  $1 \times 10^6$  copies/ $\mu$ L

**Volume:** 100  $\mu$ L

**Shipping information:**

Shipped in a proprietary stabilization matrix

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

The synthetically engineered sequence of the product constitutes intellectual property belonging to ATCC. Unauthorized use, including sequencing, modification, or reverse-engineering, of the product is expressly prohibited without prior ATCC consent.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Handling Procedures

1. Thaw the vial at room temperature and immediately place on ice. Avoid exposing the synthetic RNA to repeated freeze-thaw cycles as it may result in degradation of the RNA and variation in copy number.
  2. Gently mix the sample to ensure an even distribution of material.
  3. Briefly centrifuge the tube before opening to ensure all liquid is at the bottom.
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## Notes

RNA is easily degraded. Take extra precautions against contamination by using new gloves and clean lab coats when working with RNA. Use only RNase-free lab materials when handling this product. Vortexing can damage the synthetic RNA. Gentle pipetting is highly recommended. Aliquoting is highly recommended to avoid multiple freeze-thaws, which can damage the synthetic RNA.

The following primers and probe can be used with this nucleic acid preparation.

Forward primer (5' to 3'): ATCAACTTACTCCTACTTGGCG

Reverse primer (5' to 3'): ACCAATGGGTATGTCACACTC

Probe (5' to 3'): FAM/AGCCCCTATTAACAGCCTGCACG/BHQ1

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Quantitative Synthetic SARS-CoV-2 RNA: Spike 5' (ATCC VR-3277SD)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Revision

This information on this document was last updated on 2023-02-11

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