ATCC

Nucleic Acid Product Sheet

Synthetic Norovirus G1 (I) RNA (ATCC® VR-3199SD™)

Please read this FIRST

Storage Temp.
8°C or colder

Biosafety Level
1

Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Synthetic Norovirus G1 (I) RNA (ATCC® VR-3199SD™)

Nucleic Acid Information

1 vial/100 reactions

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

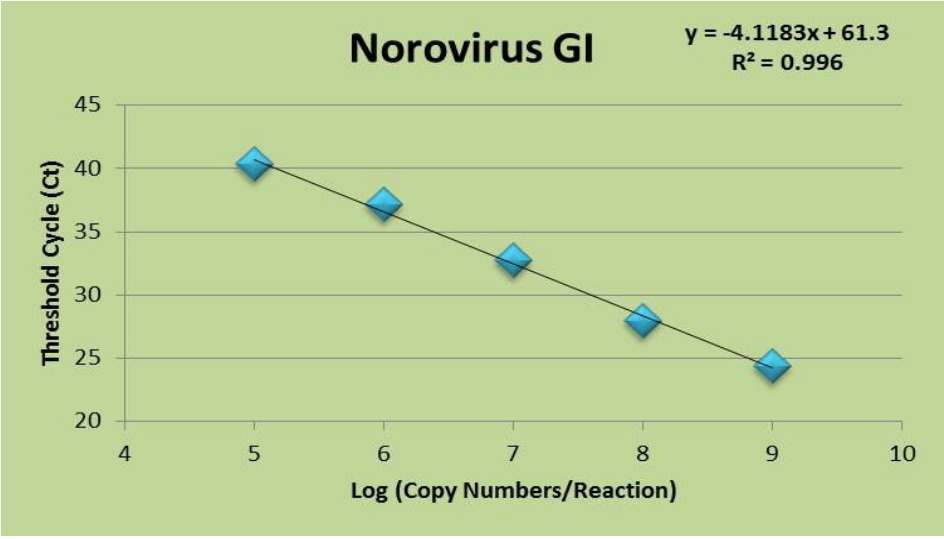
Source: Synthetic Norovirus G1 (I) RNA
Description: The Synthetic Norovirus G1 (I) RNA contains single stranded RNA genetic material designed and synthetically created for use as a genetic surrogate for Norovirus G1 (I), known as molecular standards. This product is appropriate for use as positive control material in molecular applications, such as PCR.
Note: 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 Norovirus G1 (I) RNA. Gentle pipetting is highly recommended.
Aliquoting is highly recommended to avoid multiple freeze-thaws, which can damage the Synthetic Norovirus G1 (I) RNA.

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

Preparation Procedure

1. Centrifuge Synthetic Norovirus G1 (I) RNA before opening to avoid losing dried pellet.
2. Calculate the volume of molecular-grade water needed to obtain your desired stock concentration. We recommend resuspending Synthetic Norovirus G1 (I) RNA in 55 µL molecular-grade water to obtain an approximate stock concentration of $2x10^7$ Copy Numbers (CN)/µL or $1x10^8$ CN/reaction with a 5 µL reaction volume.
3. Incubate at 2-8°C for at least fifteen minutes to allow complete rehydration. Do not let sit overnight.
4. Mix by pipetting up and down gently several times.
5. Centrifuge briefly to ensure all liquid is in the bottom of the tube.
6. Aliquot the Synthetic Norovirus G1 (I) RNA into 10 µL stock vials and store at -80°C.
7. Thaw the stock vial aliquot at 2-8°C and dilute to your working concentration (Refer to the figure below for recommended concentration).
8. Add 2-5 µL of the *diluted* Synthetic Norovirus G1 (I) RNA to your reverse transcription PCR reaction and run according to your reverse transcription PCR protocol.



NOTE: The standard curve was performed using 5 µL of Synthetic Norovirus G1 (I) RNA per reaction. Adjust your dilutions accordingly if using a different volume. Recommended working concentration should be between 10^7 CN/reaction and 10^8 CN/reaction.

Quality Control Information

Genetic Target: ORF1-ORF2 Junction of *Norovirus GI*
Format Provided: Dried RNA
Starting Amount: 1.1 x 10^9 Copy Numbers (CN)
Downstream compatibility: Reverse Transcription PCR or other molecular applications

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in

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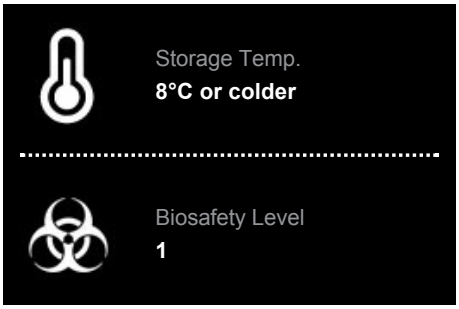

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the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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