





Product Sheet

Quantitative Synthetic West Nile Virus RNA (ATCC® VR-3198SD™)

Please read this FIRST



Storage Temp.
8°C or colder



Biosafety Level
1

Intended Use

This product is intended for research and diagnostic use only. It is not intended for any animal or human therapeutic 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: Quantitative Synthetic West Nile Virus RNA (ATCC® VR-3198SD™)

Nucleic Acid Information

powder
Specification range: >1.0 x 10⁸ copies

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: Quantitative Synthetic West Nile Virus RNA

Description: The Synthetic West Nile Virus RNA contains single-stranded RNA genetic material designed and synthetically created for use as a genetic surrogate for West Nile Virus, known as molecular standards. Molecular standards are appropriate for use as control material in molecular applications, such as PCR.

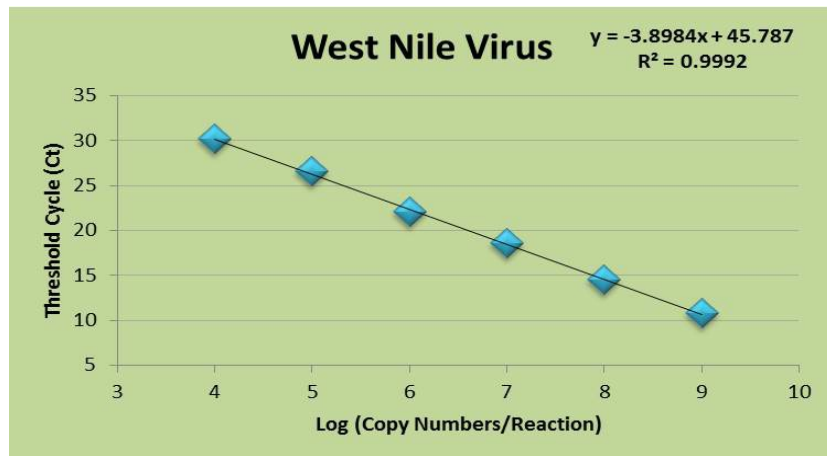
Note: RNA is easily degraded. Take extra precautions against contamination by using new gloves and clean lab coats when working with RNA. Use only RNase-free lab materials when handling this product. Vortexing can damage the Synthetic West Nile Virus RNA. Gentle pipetting is highly recommended. Aliquoting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

Batch-Specific Information

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

Preparation Procedure

1. Centrifuge Synthetic West Nile Virus 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 West Nile Virus RNA in 55 µL molecular-grade water to obtain an approximate stock concentration of 2x10⁶ Copy Numbers (CN)/µL or 1x10⁷ 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 West Nile Virus 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 West Nile Virus 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 West Nile Virus RNA per reaction. Adjust your dilutions accordingly if using a different volume. Recommended working concentration should be between 10⁶ CN/reaction and 10⁷ CN/reaction.

Quality Control Information

Genetic Target: Fragments from the 5'UTR region, anchored capsid protein C gene, capsid protein C gene, membrane glycoprotein precursor prM gene, envelope protein E gene, nonstructural protein NS1, NS2A, NS3, and NS5 genes, and the 3' UTR region of the West Nile Virus genome

Format Provided: Dried RNA

Starting Amount: 1.1 x 10⁸ 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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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.

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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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