

**Quantitative Synthetic DNA from  
Monkeypox Virus**

**Catalog No. NR-58627**

**For research use only. Not for use in humans.**

**Contributor:**  
ATCC®

**Manufacturer:**  
BEI Resources

**Product Description:**

NR-58627 was prepared from synthetic DNA from monkeypox virus (ATCC® VR-3270SD™). The product can be used for assay development, verification, validation, 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. The preparation includes fragments from J2L, D14L, F3L, F8L, A27L, A29L, B6R, B7R and N3R regions. The following primers and probe can be used with this nucleic acid preparation. Forward primer (5' to 3'): CATCTATTATAGCATCAGCATCAGA; Reverse primer (5' to 3'): GATACTCCTCCTCGTTGGTCTAC; Probe (5' to 3'): JOE/TGTAGGCCGTGTATCAGCATCCATT/BHQ1.

Aliquoting is highly recommended to avoid multiple freeze-thaws, which can damage the synthetic DNA. This construct is synthetically derived and therefore does not contain any viable material and cannot replicate.

**Material Provided:**

Each vial of synthetic DNA from monkeypox virus contains approximately 100 µL of a proprietary stabilization matrix. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-58627 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -70°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Quantitative Synthetic DNA from Monkeypox Virus, NR-58627.”

**Biosafety Level: 1**

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. [Biosafety in Microbiological and Biomedical Laboratories](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

**Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants 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, use, and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure the authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers, and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

**Use Restrictions:**

**This material is distributed for internal research, non-commercial purposes only.** This material, its product, or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products, or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before the first commercial sale.

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.

ATCC® is a trademark of the American Type Culture Collection.

