

### Genomic DNA from Monkeypox Virus, WRAIR 7-61

Catalog No. NR-3071

For research use only. Not for human use.

**Contributor:**  
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#### Product Description:

Genomic DNA was isolated from a preparation of cell lysate and supernatant from African green monkey cells (MA-104 Clone 1; ATCC® CRL-2378.1™) infected with monkeypox virus, WRAIR 7-61 (BEI Resources NR-27).

Monkeypox virus, Walter Reed Army Institute of Research (WRAIR) 7-61 was isolated from a scab from a female cynomolgus monkey (*Macaca fascicularis*) that was observed with a poxvirus-like infection.<sup>1</sup> The complete genomic sequence of monkeypox virus, WRAIR 7-61 has been determined (GenBank: AY603973).<sup>2</sup>

NR-3071 has been qualified for PCR applications by amplification of a ~ 1,200 bp sequence. NR-3071 is not intended for use as a standard for quantitative PCR.

#### Material Provided:

Each vial contains a target amount of  $1 \times 10^8$  copies of viral genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The actual number of copies per vial may vary from 10-fold lower to 10-fold higher. The number of copies per vial and the concentration are shown on the Certificate of Analysis. The viral genomic DNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

#### Packaging/Storage:

NR-3071 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from Monkeypox Virus, WRAIR 7-61, NR-3071."

#### 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. 4th ed.

Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at [www.cdc.gov/od/ohs/biosfty/bmb14/bmb14toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb14/bmb14toc.htm).

#### Disclaimers:

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#### References:

1. McConnell, S. J., Y. F. Herman, D. E. Mattson, and L. Erickson. "Monkey Pox Disease in Irradiated Cynomolgous Monkeys." Nature 195 (1962): 1128–1129.
2. Chen, N. et al. "Virulence Differences between Monkeypox Virus Isolates from West Africa and the Congo Basin." Virology 340 (2005): 46–63. PubMed: 16023693. GenBank: AY603973.
3. Di Giulio, D. B. and P. B. Eckburg. "Human Monkeypox: An Emerging Zoonosis." Lancet Infect. Dis. 4 (2004): 15–25. PubMed: 14720564. Erratum in: Lancet Infect. Dis. 4 (2004): 251.
4. Cho, C. T. and H. A. Wenner. "Monkeypox Virus." Bacteriol. Rev. 37 (1973): 1–18. PubMed: 4349404.

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