

## Monkeypox Virus, WRAIR 7-61

### Catalog No. NR-27

(Derived from ATCC® VR-267™)

**For research use only. Not for human use.**

#### Contributor:

ATCC®

#### Product Description:

Virus Classification: *Poxviridae, Orthopoxvirus*

Agent: Monkeypox virus

Strain/Isolate: Walter Reed Army Institute of Research (WRAIR) 7-61

Original Source: Scab from a female cynomolgus monkey (*Macaca fascicularis*) that was observed with a poxvirus-like infection<sup>1</sup>

Comments: The complete genomic sequence of monkeypox virus, WRAIR 7-61 has been determined (GenBank: AY603973).<sup>2</sup>

#### Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney cells (Vero; ATCC® CCL-81™) infected with monkeypox virus, WRAIR 7-61.

#### Packaging/Storage:

NR-27 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

#### Growth Conditions:

Host: Vero cells (ATCC® CCL-81™)

Growth Medium: Eagle's Minimum Essential Medium supplemented with 2% fetal bovine serum, or equivalent (lot-specific details are on the Certificate of Analysis)

Infection: Cells should be 80–90% confluent (not 100% confluent)

Incubation: 3 to 5 days at 37°C and 5% CO<sub>2</sub>

Cytopathic Effect: Cell rounding and cell lysis

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Monkeypox Virus, WRAIR 7-61, NR-27."

#### Biosafety Level: 3

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/bmbl4/bmbl4toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm).

This publication recommends that all persons working in or entering laboratory or animal care areas where activities with monkeypox virus are being conducted should have documented evidence of satisfactory vaccination within the preceding ten years.

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#### References:

1. McConnell, S. J., Y. F. Herman, D. E. Mattson, and L. Erickson. "Monkey Pox Disease in Irradiated Cynomolgus 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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