

Monkeypox Virus, USA-2003

Catalog No. NR-2500

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Contributor:

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Product Description:

Virus Classification: *Poxviridae, Orthopoxvirus*

Agent: Monkeypox virus

Strain/Isolate: USA-2003

Original Source: 2003 monkeypox outbreak in Wisconsin¹⁻²

Comments: The complete genomic sequences of monkeypox virus, USA-2003-039 (GenBank: DQ011157) and USA-2003-044 (GenBank: DQ011153) have been determined.³

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey cells (MA-104 Clone 1; ATCC[®] CRL-2378.1[™]; also available as BEI Resources NR-595) infected with monkeypox virus, USA-2003.

Note: If homogeneity is required for your intended use, please plaque-purify prior to initiating work.

Packaging/Storage:

NR-2500 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: MA-104 Clone 1 cells (ATCC[®] CRL-2378.1[™]; BEI Resources NR-595)

Growth Medium: 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 to 90% confluent (not 100% confluent)

Incubation: 72 hours at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding and sloughing

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, USA-2003, NR-2500."

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmlb5/bmlb5toc.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:

- Centers for Disease Control and Prevention (CDC). "Multistate Outbreak of Monkeypox—Illinois, Indiana, and Wisconsin, 2003." MMWR Morb. Mortal. Wkly. Rep. 52 (2003): 537–540. PubMed: 12803191.

2. Reed, K. D., et al. "The Detection of Monkeypox in Humans in the Western Hemisphere." N. Engl. J. Med. 350 (2004): 342–350. PubMed: 14736926.
3. Likos, A. M., et al. "A Tale of Two Clades: Monkeypox Viruses." J. Gen. Virol. 86 (2005): 2661–2672. PubMed: 16186219. GenBank: DQ011153 and DQ011157.

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