

Monkeypox Virus, hMPXV/USA/MA001/2022 (Lineage B.1, Clade IIb)

Catalog No. NR-58622

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For research use only. Not for use in humans.

Contributor:

Centers for Disease Control and Prevention, Atlanta, Georgia, USA

Manufacturer:

The University of Texas Medical Branch, Galveston, Texas, USA

Product Description:

Virus Classification: *Poxviridae, Orthopoxvirus*

Species: Monkeypox virus

Strain/Isolate: hMPXV/USA/MA001/2022

Original Source: Monkeypox virus, hMPXV/USA/MA001/2022 was isolated from a human in Massachusetts, USA in May of 2022, during an outbreak of monkeypox.¹

Comments: Monkeypox virus, hMPXV/USA/MA001/2022 belongs to Clade IIb (previously west African clade) and lineage B.1.² The complete genome of monkeypox virus, hMPXV/USA/MA001/2022 has been sequenced (GenBank: [ON563414.3](https://www.ncbi.nlm.nih.gov/nuccore/ON563414.3) and GISAID: [EPI_ISL_13052289](https://gisaid.org/record/EPI_ISL_13052289)).

Material Provided:

Each vial contains approximately 0.5 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (BSC-40; ATCC® CRL-2761™) infected with monkeypox virus, hMPXV/USA/MA001/2022.

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

Packaging/Storage:

NR-58622 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: *Cercopithecus aethiops* kidney epithelial cells (BSC-40; ATCC® CRL-2761™)

Growth Medium: Eagle's Minimum Essential Medium (EMEM; HyClone) supplemented with 2% fetal bovine serum (FBS; Gibco) and 1% penicillin/streptomycin solution, or equivalents

Infection: Cells should be 70% to 80% confluent

Incubation: 3 to 5 days at 37°C

Cytopathic Effect: Cell rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: Monkeypox Virus, hMPXV/USA/MA001/2022 (Lineage B.1, Clade IIb), NR-58622."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

Disclaimers:

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Use Restrictions:

The MATERIAL can be used for any legitimate purpose required to rapidly prevent, detect, prepare for, and respond to, the spread or transmission of MPXV, and to include use and sharing of the MATERIAL in conjunction with other public health institutions and like partners.

References:

1. [GenBank](https://www.ncbi.nlm.nih.gov/nuccore/ON563414.3)
2. [GISAID](https://gisaid.org/record/EPI_ISL_13052289)

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