

Monkeypox Virus, Isolate MPX Clade Ib_USA_CA_2024, Heat Inactivated

Catalog No. NR-60222

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Product Description:

NR-60222 consists of a heat inactivated preparation of sonicated, spin-clarified cell lysate and supernatant from *Chlorocebus aethiops* kidney epithelial cells (BSC-40; BEI Resources lot 70055101) infected with monkeypox virus, MPX clade Ib_USA_CA_2024 (NRC-60220 lot 70075614) that was inactivated by heating to 65°C for 30 minutes and diluted 1:5 prior to vialing.

Lot: 70079721

Manufacturing Date: 26AUG2026

TEST	SPECIFICATIONS	RESULTS
Pre-Inactivation Titer by TCID₅₀ Assay in Vero E6 Cells¹ (6 days at 37°C and 5% CO ₂)	Report results	9.2 × 10 ⁷ TCID ₅₀ /mL
Pre-Inactivation Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Pre-Inactivation Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected
Post Vial Genome Copy Number using Digital-Based PCR^{3,4}	Report results	1.1 × 10 ⁷ genome equivalents/mL
Virus Inactivation (Post-Inactivation) 10% of total bulk irradiated preparation was plated on BSC-40 cells for 14 days at 37°C and 5% CO ₂ for two passages and evaluated for cytopathic effect and presence of viral RNA by qRT-PCR ⁵	No viable virus detected	No viable virus detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

³The GE value reported is obtained using Qiagen RNA extraction kit (Catalog No. 52906).

⁴Two vials of NR-60222 lot 70079721 were used for RNA extraction. Average of the results obtained from nine replicates from each vial is reported.

⁵Use of the QIAamp® Viral RNA Mini Kit (Qiagen Catalog No. 52906) has been demonstrated to consistently inactivate 100% of monkeypox virus as shown by the absence of cytopathic effect (CPE) and viral RNA expression by qRT-PCR after plating the entire extract on virus-susceptible cells for two passages.

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04 SEP 2026

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