

Chikungunya Virus, LR 2006-OPY1

Catalog No. NR-49741

Product Description:

Chikungunya virus (CHIKV), LR 2006-OPY1 was isolated from a 73-year-old male traveler returning to mainland France from Reunion Island, a French Indian Ocean Island, in 2006. NR-49741 was produced by infecting *Cercopithecus aethiops* kidney epithelial cells (Vero C1008 (E6); ATCC® CCL-1586™) with BEI Resources seed lot 68302503 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 3 days at 37°C with 5% CO₂ to produce this lot.

Passage History: V(5)/V(5) (Prior to deposit at BEI Resources/BEI Resources); V = Vero C1008 (E6) cells¹

Lot: 70066984

Manufacturing Date: 04NOV2025

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells	Cell rounding and detachment	Cell rounding and detachment
Next-Generation Sequencing (NGS) of Complete Genome	≥ 98% sequence identity with CHIKV, LR 2006-OPY1 (GenBank: KT449801)	99.9% sequence identity with CHIKV, LR 2006-OPY1 (GenBank: KT449801)
Titer by TCID₅₀ Assay in Vero E6 Cells by Cytopathic Effect² (7 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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
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

¹The second virus passage at BEI Resources was performed by lipofectamine transfection of extracted viral nucleic acid in order to remove contaminating mycoplasma.

²The 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.

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

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