

Oropouche Virus, 240023

Catalog No. NR-59930

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Product Description:

Oropouche virus (OROV), 240023 was isolated in Florida on July 13, 2024, from the serum of a patient with a history of travel to Cuba. NR-59930 was produced by infecting *Homo sapiens* lung carcinoma epithelial cells (A549; ATCC® CCL-185™) with the deposited material and incubating in F-12K medium (Kaighn’s Modification of Ham’s F-12 medium, ATCC® 30-2004) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 6 days at 37°C in an aerobic atmosphere with 5% CO₂ to produce this lot.

Passage History:

V(2)/A(1) (Prior to deposit at BEI Resources/BEI Resources); V = Vero cells; A = A549 cells

Lot: 70071793

Manufacturing Date: 25NOV2024

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in A549 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Regions		
L segment		
RNA-dependent RNA polymerase gene (~ 6830 nucleotides)	≥ 98% sequence identity to OROV, 240023 (GenBank: PQ417948)	99.96% sequence identity to OROV, 240023 (GenBank: PQ417948.1)
M segment		
Membrane polyprotein gene (~ 4360 nucleotides)	≥ 98% sequence identity to OROV, 240023 (GenBank: PQ417949)	99.93% sequence identity to OROV, 240023 (GenBank: PQ417949.1)
S segment		
Nucleoprotein gene (~ 950 nucleotides)	≥ 98% sequence identity to OROV, 240023 (GenBank: PQ417950)	100% sequence identity to OROV, 240023 (GenBank: PQ417950.1)
Titer by TCID₅₀ Assay in A549 Cells by Cytopathic Effect¹ (9 days at 37°C with 5% CO ₂)	Report results	8.9 × 10 ⁶ TCID ₅₀ /mL
Sterility (21-day incubation)		
Harpo’s HTYE broth, 37°C and 26°C, aerobic ²	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None 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.

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