

**Powassan Virus, 1427-62**

**Catalog No. NR-51177**

**Product Description:**

Powassan virus (POWV), 1427-62 was isolated from an American red squirrel (*Tamiasciurus hudsonicus*) in August 1962 in Ontario, Canada. NR-51177 was produced by infecting *Chlorocebus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) with BEI Resources seed lot 70021462 and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 7 days at 37°C in an aerobic atmosphere with 5% CO<sub>2</sub> to produce this lot.

**Passage History:**

SM(3)V(1)/V(3) (Prior to deposit at BEI Resources/BEI Resources); SM = Suckling mouse; V = Vero cells

**Lot: 70066988**

**Manufacturing Date: 02MAY2024**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in Vero Cells</b>	Cell rounding and detachment	Cell rounding and detachment
<b>Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® MiSeq™ Platform</b>	≥ 98% identity with POWV, 1427-62 NS5 gene (GenBank: AF310942.1)	99.5% identity with POWV, 1427-62 NS5 gene (GenBank: AF310942.1)
<b>Titer by TCID<sub>50</sub> Assay in Vero Cells by Cytopathic Effect<sup>1</sup></b> (14 days at 37°C with 5% CO <sub>2</sub> )	Report results	1.6 × 10 <sup>9</sup> TCID <sub>50</sub> /mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</sup> 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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

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

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