

**Powassan Virus, 12542 (A-77-115)**

**Catalog No. NR-51180**

**Product Description:**

Powassan virus (POWV), 12542 (A-77-115) is a lineage II isolate that was isolated from the brain of a fox (*Vulpes* spp.) in Braxton County, West Virginia, USA, in July 1977. NR-51180 lot 70015192 was produced by infecting *Chlorocebus* (formerly *Cercopithecus*) *aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) with the deposited material and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 14 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(1) (Prior to deposit at BEI Resources/BEI Resources); SM = Suckling mice; V = Vero cells

**Lot: 70015192**

**Manufacturing Date: 26MAR2019**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in Vero Cells</b>	Cell rounding and detachment	Cell rounding and detachment
<b>Sequencing of Species-Specific Region</b> (~ 840 nucleotides)	≥ 98% identity with POWV, 12542 (A-77-115), NS5 gene (GenBank: AF310949.1)	99.9% identity with POWV, 12542 (A-77-115), NS5 gene (GenBank: AF310949.1)
<b>Titer by TCID<sub>50</sub> Assay in Vero Cells by quantitative PCR<sup>1</sup></b> (14 days at 37°C with 5% CO <sub>2</sub> )	Report results	1.6 × 10 <sup>7</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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