

**Powassan Virus, LB**

**Catalog No. NR-51181**

**Product Description:** Powassan virus (POWV), LB was isolated from the brain of a child who died of encephalitis in September 1958 in Ontario, Canada.

**Passage History:** SM8V1/V2 (Prior to deposit at BEI Resources/BEI Resources); SM = Suckling mice; V = Vero cells<sup>1</sup>

**Lot<sup>2</sup>: 70015194**

**Manufacturing Date: 06JUL2018**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 1040 nucleotides)	≥ 98% identity with POWV, LB (GenBank: L06436.1)	100% identity with POWV, LB (GenBank: L06436.1)
Titer by TCID <sub>50</sub> Assay <sup>3,4</sup> in Vero cells <sup>1</sup> by Cytopathic Effect	Report results	2.8 × 10 <sup>7</sup> TCID <sub>50</sub> per mL
Amplification of POWV Sequence by RT-PCR	~ 1040 base pair amplicon	~ 1040 base pair amplicon
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>5</sup> , 37°C and 26°C, aerobic Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	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>*Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™)

<sup>2</sup>Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 8 days at 37°C with 5% CO<sub>2</sub>

<sup>3</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>4</sup>Assay plates were incubated 9 days at 37°C and 5% CO<sub>2</sub>.

<sup>5</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

Heather Couch

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