

**St. Louis Encephalitis Virus, V 07457**

**Catalog No. NR-49781**

**Product Description:**

St. Louis encephalitis virus (SLEV), V 07457 was isolated from a mosquito (*Culex quinquefasciatus*) in Harris County, Texas, USA on August 29, 2013. NR-49781 lot 70014025 was produced by infecting *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 6 days at 37°C with 5% CO<sub>2</sub>. The second virus passage at BEI Resources was performed by polyethylenimine (Polyplus-transfection® SA jetPEI® 101-10)-mediated transfection of extracted viral nucleic acid in order to remove contaminating mycoplasma.

**Passage History:**

C6/36(1)V(1)/V(3) (Prior to deposit at BEI Resources/BEI Resources); C6/36 = *Aedes albopictus* clone C6/36 cells; V = Vero cells

**Lot: 70014025**

**Manufacturing Date: 25APR2019**

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> (950 nucleotides)	≥ 98% identity with SLEV	≥ 98% identity with SLEV <sup>1</sup>
<b>Titer by TCID<sub>50</sub> Assay in Vero Cells by Cytopathic Effect<sup>2</sup></b> (8 days at 37°C with 5% CO <sub>2</sub> )	Report results	2.8 × 10 <sup>7</sup> TCID <sub>50</sub> per mL
<b>Amplification of SLEV Sequence by RT-PCR</b>	~ 1000 base pair amplicon	~ 1000 base pair amplicon
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>3</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 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>Sequence information for SLEV, V 07457 is not available in the NCBI database; nucleotide sequence obtained for NR-49781 lot 70014025 is ≥ 98% identical to numerous SLEV strains.

<sup>2</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>3</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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