

St. Louis Encephalitis Virus, TX AR 9-6038

Catalog No. NR-50061

Product Description:

St. Louis encephalitis virus (SLEV), TX AR 9-6038 was isolated from a pool of mosquitoes (*Culex quinquefasciatus*) in Port Arthur, Jefferson County, Texas, USA in August 2009. NR-50061 lot 70014031 was produced by infecting *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) and incubating in Eagle's Minimum Essential Medium (EMEM; ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 7 days at 37°C with 5% CO₂. The second viral 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:

BHK(1)V(1)/V(3) (Prior to deposit at BEI Resources/BEI Resources); BHK = Baby hamster kidney cells; V = Vero cells

Lot: 70014031

Manufacturing Date: 14FEB2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 980 nucleotides)	Consistent with SLEV	Consistent with SLEV ¹
Titer by TCID₅₀ Assay in Vero Cells by Cytopathic Effect² 10 days at 37°C with 5% CO ₂	Report results	8.9 × 10 ⁷ TCID ₅₀ per mL
Amplification of SLEV Sequence by RT-PCR	~ 1020 base pair amplicon	~ 1020 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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 ₂	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
Mycoplasma Contamination 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

¹Sequence information for SLEV, TX AR 9-6038 is not available in the NCBI database; nucleotide sequence obtained for NR-50061 lot 70014031 is ≥ 98% identical to numerous SLEV strains.

²The 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.

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

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Program Manager or designee, ATCC Federal Solutions

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