Product Information Sheet for NR-49782

St. Louis Encephalitis Virus, V 08449

Catalog No. NR-49782

For research use only. Not for use in humans.

Contributor:
World Reference Center for Emerging Viruses and Arboviruses (WRCEVA), University of Texas Medical Branch, Galveston, Texas, USA

Manufacturer:
BEI Resources

Product Description:

Virus Classification: *Flaviviridae*, *Flavivirus*
Species: St. Louis encephalitis virus
Strain/Isolate: V 08449
Original Source: St. Louis encephalitis virus (SLEV), V 08449 was isolated from a mosquito (*Culex quinquefasciatus*) in Harris County, Texas, USA in August 2013 and contributed to WRCEVA by Yvonne Randle, Mosquito Control Division, Harris County Public Health and Environmental Services, Houston, Texas, USA.
Comments: In order to remove contaminating mycoplasma, the second passage at BEI Resources was performed by polyethyleneimine transfection of extracted viral RNA.

SLEV is a single-stranded RNA virus which is naturally maintained by mosquito to bird transmission involving *Culex* species mosquito as vectors and passerine and columbiform avian species as amplificatory hosts. Small birds and a variety of mammals like bats, rodents, folivores and marsupials have also been shown to be infected. The virus has a wide distribution encompassing tropical, sub-tropical and much of temperate-tropical zones of the Western Hemisphere, including most of North and South America. SLEV was first detected in North America in the summer of 1933 in St. Louis, Missouri, where it resulted in 1,095 clinical human cases and 201 deaths. Most human SLEV infections are asymptomatic but clinical infections can range in severity from uncomplicated flu-like symptoms to fatal encephalitis; the incidence of severe disease and death increase with age.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with SLEV, V 08449.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:
NR-49782 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™)
Growth Medium: 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 grams per liter of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent
Infection: Cells should be 70% to 90% confluent
Incubation: 3 to 6 days at 37°C and 5% CO2
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH, as part of the WRCEVA program: St. Louis Encephalitis Virus, V 08449, NR-49782.”

Biosafety Level: 2


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References:
1. Tesh, R. B., Personal Communication.

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