St. Louis Encephalitis Virus, V 08458

Catalog No. NR-49783

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 08458
Original Source: St. Louis encephalitis virus (SLEV), V 08458 was isolated from a mosquito (Culex quinquefasciatus) in Houston, 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.¹
Comments: In order to remove contaminating mycoplasma, the second viral passage at BEI Resources was performed by polyethyleneimine-mediated 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.²³⁴ Small birds and a variety of mammals like bats, rodents, folivores and marsupials have also been shown to be infected.⁴ The virus has a wide distribution encompassing tropical, sub-tropical and much of temperate-tropical zones of Western Hemisphere, including most of North and South America.² 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.³ 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 08458.

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

Packaging/Storage:
NR-49783 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.

Biosafety Level: 2

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals
contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

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

ATCC® is a trademark of the American Type Culture Collection.