Product Information Sheet for NR-51641

Sindbis Virus, 80-2449

Catalog No. NR-51641

For research use only. Not for human use.

Contributor:
Brandy Russell, Centers for Disease Control and Prevention, Division of Vector Borne Diseases, Fort Collins, Colorado, USA

Manufacturer:
BEI Resources

Product Description:
Virus Classification: *Togaviridae*, *Alphavirus*
Species: Sindbis Virus
Strain/Isolate: 80-2449
Original Source: Sindbis virus (SINV), 80-2449 was isolated from mosquito *(Culex sinaiticus)* in 1980 in Saudi Arabia.[1]

SINV is an arthropod-borne virus transmitted by mainly *Aedes*, *Culiseta* and *Culex* species of mosquitoes, with birds as the main amplifying hosts.[2] SINV was first isolated in 1952 in the village of Sindbis near Cairo and belongs to the Western equine encephalomyelitis virus complex of the genus *Alphavirus*.[2,3] The virus is one of the most widely distributed of all arboviruses and is indigenous to Africa, Asia, Australia, the Middle East and Europe.[2] SINV are the causative agents of Karelian fever, Ockelbo disease and Pogosta disease.[2,3] These infections are characterized by arthritis, fatigue, fever, headache and rash.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with SINV, 80-2449.

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

Packaging/Storage:
NR-51641 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 E6; ATCC® CRL-1586™)
Growth Medium: Dulbecco's Modified Eagle's Medium modified to contain 4 mM L-glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate, and 1.5 g/L sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent
Infection: Cells should be 80% to 90% confluent
Incubation: 2 to 4 days at 37°C and 5% CO_2
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Sindbis Virus, 80-2449, NR-51641."

Biosafety Level: 2
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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.

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. Russell, B., Personal Communication.
2. Laine, M., et al. "Sindbis Viruses and Other Alphaviruses as Cause of Human Arthritic Disease." J. Intern. Med. 256 (2004): 457-471. PubMed: 15554947.
3. Kurkela, S., et al. "Causative Agent of Pogosta Disease Isolated from Blood and Skin Lesions." Emerg. Infect. Dis. 10 (2004): 889-894. PubMed: 15200824.

Support Provided by NIAID

BEI Resources
www.beiresources.org
E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898