Dengue Virus Type 1, UIS 998

Catalog No. NR-49713

For research use only. Not for use in humans.

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

Manufacturer:
BEI Resources

Product Description:

Virus Classification: Flavivirus, Flaviviridae
Species: Dengue virus type 1
Strain/Isolate: UIS 998

Original Source: Dengue virus type 1 (DEN-1), UIS 998 was isolated from a serum specimen collected from a human in Bucaramanga, Santander, Colombia on January 18, 2007 and contributed to WRCEVA by Gustavo Valbuena of the Department of Pathology, University of Texas Medical Branch, Galveston, Texas, USA, and Luis Villar of the Universidad Industrial de Santander, Bucaramanga, Santander, Colombia.

Dengue virus causes the most common vector-borne viral disease of humans, with over 50 million cases in tropical and subtropical regions each year. The disease is now endemic in over 110 countries in the world, with Southeast Asia and the Western Pacific being the most seriously affected. Dengue disease is caused by one of four closely related, but antigenically distinct serotypes (designated DEN-1 to -4). Dengue disease is caused by one of four closely related, but antigenically distinct serotypes (designated DEN-1 to -4). Dengue infections produce a spectrum of clinical illnesses ranging from nonspecific viral syndrome to severe and fatal hemorrhagic disease. Humans are the major host of the dengue virus, with Aedes mosquitoes as the principal vectors.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from Aedes albopictus mosquito larval epithelial cells (clone C6/36; ATCC® CRL-1660™) infected with DEN-1, UIS 998.

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

Packaging/Storage:
NR-49713 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: Aedes albopictus clone C6/36 cells (ATCC® CRL-1660™)
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 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent.
Infection: Cells should be 70% to 95% confluent
Incubation: 7 to 8 days at 28°C and 5% CO2.
Cytopathic Effect: Variable; syncytia formation may or may not be observed; confirmation of infectivity by immunofluorescence is recommended.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH, as part of the WRCEVA program: Dengue Virus Type 1, UIS 998, NR-49713.”

Biosafety Level: 2


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

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