Dengue Virus Type 3, UIS 65

Catalog No. NR-49712

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:

**Virus Classification:** Flavivirus, Flaviviridae

**Species:** Dengue virus type 3 (NR-49712 was deposited as Dengue virus type 1; however, molecular authentication testing performed at BEI Resources laboratories resulted in reclassification to dengue virus type 3.)

**Strain/Isolate:** UIS 65

**Original Source:** Dengue virus type 3 (DEN-3), UIS 65 was isolated from a serum specimen collected from a human in Bucaramanga, Santander, Colombia on July 8, 2003 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. In order to remove contaminating mycoplasma, the second viral passage at BEI Resources was performed by polyethyleneimine-mediated transfection of extracted viral RNA.

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). Infections produce a spectrum of clinical illnesses ranging from a nonspecific viral syndrome to severe and fatal hemorrhagic disease. Humans are the major host of 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-3, UIS 65.

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

Packaging/Storage:

NR-49712 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 80% confluent

**Incubation:** 7 to 9 days at 28°C and 5% CO₂

**Cytopathic Effect:** Variable; cell rounding and detachment 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 3, UIS 65, NR-49712.”

**Biosafety Level:** 2


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

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