Dengue Virus Type 2, C 0590-94

Catalog No. NR-49746

For research use only. Not for human use.

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 2
Strain/Isolate: C 0590-94

Original Source: Dengue virus type 2 (DEN-2), C 0590-94 was isolated from a patient with dengue hemorrhagic fever in Bangkok, Thailand in 1994, and contributed to WRCEVA by Alan Rothman of the Center for Infectious Disease and Vaccine Research, University of Massachusetts Medical School, Worcester, Massachusetts, USA.

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 illness 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 dengue virus type 2, C 0590-94.

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

Packaging/Storage:
NR-49746 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 EsseFntial 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 80% to 85% confluent

Incubation: 6 to 7 days at 28°C and 5% CO2

Cytotoxic Effect: Inconsistent; cell detachment and/or destruction of monolayer may or may not be observed. Confirmation of viral replication 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 2, C 0590-94, NR-49746.”

Biosafety Level: 2


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

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