Dengue Virus Type 3, DENV-3/US/BID-V1619/2005

Catalog No. NR-43283
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For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Flaviviridae, Flavivirus
Species: Dengue virus type 3
Original Source: Dengue virus type 3, DENV-3/US/BID-V1619/2005 was isolated from a human in Puerto Rico in 2005.1,2
Comments: The complete genome of dengue virus type 3, DENV-3/US/BID-V1619/2005 has been sequenced (GenBank: FJ182009).2

Dengue virus causes the most common vector-borne viral disease of humans, with over 50 million cases in tropical and subtropical regions each year.3 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).3 Infections produce a spectrum of clinical illness ranging from a nonspecific viral syndrome to severe and fatal hemorrhagic disease.4,5 Humans are the major host of dengue virus, with Aedes mosquitoes as the principal vectors.

Material Provided:

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

Packaging/Storage:
NR-43283 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: 6 to 8 days at 28°C and 5% CO₂
Cytopathic Effect: Inconsistent; cell enlargement, syncytia formation, and detachment may or may not be observed.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Dengue Virus Type 3, DENV-3/US/BID-V1619/2005, NR-43283.”

Biosafety Level: 2

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References:

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