Dengue Virus Type 1, 276RKI

Catalog No. NR-3782

For research use only. Not for human use.

Contributor:
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Product Description:

Virus Classification: Flavivirus, Flaviviridae
Species: Dengue virus type 1
Strain/Isolate: 276RKI
Original Source: Dengue virus type 1 (DEN-1), 276RKI was isolated in 1997 from a human in India.1,2
Comments: DEN-1, 276RKI was deposited to BEI Resources by Dr. D. J. Gubler while at CDC, Fort Collins.

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 aegypti mosquitoes the principal vectors.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from Aedes albopictus clone C6/36 cells (ATCC® CRL-1660™) infected with DEN-1, 276RKI.

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

Packaging/Storage:
NR-3782 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -70°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: Minimum Essential Medium with Earle’s salts supplemented with 2% irradiated fetal bovine serum, 2 mM L-glutamine and 1 mM sodium pyruvate
Infection: Cells should be 80% to 90% confluent (not 100% confluent)
Incubation: 5 to 8 days at 28°C and 5% CO₂
Cytopathic Effect: Cell rounding

Citation:
Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Dengue Virus Type 1, 276RKI, NR-3782.”

Biosafety Level: 2

Disclaimers:
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References:


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