Dengue Virus Type 3 (DEN-3), Philippines/H87/1956

Catalog No. NR-80
Derived from ATCC® VR-1256 (V-576-001-022)

For research use only. Not for human use.

Contributor:
ATCC®

Manufacturer:
BEI Resources

Product Description:
Virus Classification: Flaviviridae, Flavivirus
Agent: Dengue virus type 3 (DEN-3)¹
Strain/Isolate: Philippines/H87/1956
Original Source: Derived from ATCC® VR-1256 (V-576-001-022). ATCC® VR-1256 was derived from ATCC® VR-216, which was isolated from human serum in 1956 in the Philippines
Comments: The complete genome of DEN-3, Philippines/H87/1956, has been sequenced (GenBank: M93130).³

Dengue virus causes the most common vector-borne viral disease of humans, with over 50 million cases in tropical and subtropical regions each year.⁴ 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).⁴ Infections produce a spectrum of clinical illness ranging from a nonspecific viral syndrome to severe and fatal hemorrhagic disease.⁵,⁶ 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 African green monkey kidney cells (Vero; ATCC® CCL-81™) infected with DEN-3, Philippines/H87/1956.

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

Packaging/Storage:
NR-80 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: Vero cells (ATCC® CCL-81™)
Growth Medium: Minimum Essential Medium supplemented with 2% fetal bovine serum, or equivalent
Infection: Cells should be 70–90% confluent (not 100% confluent)
Incubation: 6 to 12 days at 37°C and 5% CO₂
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Dengue Virus Type 3, Philippines/H87/1956, NR-80.”

Biosafety Level: 2

Disclaimers:
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References:

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