**Dengue Virus Type 4, 703-4**

**Catalog No. NR-48801**

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 4

**Strain:** 703-4

**Original Source:** Dengue virus type 4 (DEN-4), 703-4 was isolated from a human in Thailand in 1994.¹

Dengue virus causes the most common vector-borne viral disease of humans, with over 50 million cases in tropical and subtropical regions each year.² 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).² Infections produce a spectrum of clinical illness ranging from a nonspecific viral syndrome to severe and fatal hemorrhagic disease.²³ 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 mosquito larval epithelial cells (clone C6/36; ATCC® CRL-1660™) infected with DEN-4, 703-4.

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

**Packaging/Storage:**
NR-48801 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 75% to 90% confluent

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

**Cytopathic Effect:** Inconsistent; cell enlargement 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 4, 703-4, NR-48801.”

**Biosafety Level:** 2


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