**Catalog No. NR-44085**

**For research use only. Not for use in humans.**

**Contributor:** Cameron P. Simmons, Ph.D., Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

**Manufacturer:** BEI Resources

**Product Description:**

**Virus Classification:** Flaviviridae, Flavivirus

**Species:** Dengue virus type 2

**Strain/Isolate:** DENV-2/VN/BID-V1002/2006

**Original Source:** Dengue virus type 2, DENV-2/VN/BID-V1002/2006 was isolated from a human in Vietnam on December 1, 2006.1,2

**Comments:** The complete genome of dengue virus type 2, DENV-2/VN/BID-V1002/2006 has been sequenced (GenBank: EU482447).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:**

Each vial contains approximately 1.0 mL of cell lysate and supernatant from *Aedes albopictus* (Asian Tiger) mosquito larval cells (clone C6/36; ATCC® CRL-1660™) infected with dengue virus type 2, DENV-2/VN/BID-V1002/2006.

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

**Packaging/Storage:**

NR-44085 was packaged aseptically in 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 supplemented with 2% fetal bovine serum, or equivalent

**Infection:** Cells should be 70% to 95% confluent

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

**Cytopathic Effect:** Inconsistent; cell enlargement, rounding, and detachment may or may not be observed.

**Biosafety Level:** 2


**Use Restrictions:**

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.
References:
1. Simmons, C. P., Personal Communication.

ATCC® is a trademark of the American Type Culture Collection.