

SUPPORTING INFECTIOUS DISEASE RESEARCH

**Product Information Sheet for NR-48800** 

# Dengue Virus Type 3, C0360/94

## Catalog No. NR-48800

## For research use only. Not for human use.

#### Contributor:

Alan D. T. Barrett, Ph.D., Director, Sealy Center for Vaccine Development, Department of Pathology, University of Texas Medical Branch, Galveston, Texas, USA

#### Manufacturer:

**BEI Resources** 

### **Product Description:**

Virus Classification: Flavivirus, Flaviviridae

Species: Dengue virus type 3

Strain: C0360/94

<u>Original Source</u>: Dengue virus type 3 (DEN-3), C0360/94 was isolated from a human in Thailand in 1994.<sup>1</sup> The complete genome of DEN-3, C0360/94 has been sequenced (GenBank: AY923865,<sup>2</sup> KJ737429<sup>3</sup>).

Dengue virus causes the most common vector-borne viral disease of humans, with over 50 million cases in tropical and subtropical regions each year.<sup>4</sup> 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).<sup>4</sup> Infections produce a spectrum of clinical illness ranging from a nonspecific viral syndrome to severe and fatal hemorrhagic disease.<sup>5,6</sup> 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-3, C0360/94.

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

### Packaging/Storage:

NR-48800 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:**

<u>Host</u>: Aedes albopictus clone C6/36 cells (ATCC<sup>®</sup> 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

<u>Infection</u>: Cells should be 75% to 90% confluent <u>Incubation</u>: 6 to 8 days at 28°C and 5% CO<sub>2</sub>

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 3, C0360/94, NR-48800."

### Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

#### **Disclaimers:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at <a href="https://www.beiresources.org">www.beiresources.org</a>.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

#### **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.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898

NR-48800\_22MAR2017



SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-48800**

#### References:

- Raekiansyah, M., et al. "Genetic Variations and Relationship among Dengue Virus Type 3 Strains Isolated from Patients with Mild or Severe Form of Dengue Disease in Indonesia and Thailand." <u>Southeast Asian J.</u> <u>Trop. Med. Public Health.</u> 36 (2005): 1187-1197. PubMed: 16438144.
- Raekiansyah, M., et al. University of Indonesia, Jakarta, Indonesia. Direct Submission.
- Sararathy, V. V., et al. University of Texas Medical Branch, 301 University Boulevard, Galveston, Texas 77555, USA. Direct Submission.
- 4. Holmes, E. C. and S. S. Twiddy. "The Origin, Emergence and Evolutionary Genetics of Dengue Virus." <u>Infect. Genet. Evol.</u> 3 (2003): 19-28. PubMed: 12797969.
- Malavige, G. N., et al. "Dengue Viral Infections." <u>Postgrad.</u> <u>Med. J.</u> 80 (2004): 588-601. PubMed: 15466994.
- Kao, C.-L., et al. "Laboratory Diagnosis of Dengue Virus Infection: Current and Future Perspectives in Clinical Diagnosis and Public Health." J. Microbiol. Immunol. Infect. 38 (2005): 5-16. PubMed: 15692621.

 $\mathsf{ATCC}^{\circledcirc}$  is a trademark of the American Type Culture Collection.



BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898

NR-48800\_22MAR2017