

Dengue Virus Type 3, DENV-3/VN/BID-V1009/2006

Catalog No. NR-44088

Product Description:

Dengue virus type 3, DENV-3/VN/BID-V1009/2006 was isolated from a human in Vietnam on September 20, 2006. NR-44088 lot 70061243 was produced by infecting *Aedes albopictus* clone C6/36 cells (ATCC® CRL-1660™) with seed material (BEI Resources lot 63466400) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 5 days at 28°C with 5% CO₂.

Passage History:

C(6)/C(3) (Prior to deposit at BEI Resources/BEI Resources); C = *Aedes albopictus* clone C6/36 cells

Lot: 70061243

Manufacturing Date: 05JUN2023

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in C6/36 Cells	Report results	Cell clumping and syncytia formation
Sequencing of Species-Specific Region (~ 1040 nucleotides)	≥ 98% identity with DENV- 3/ VN/BID-V1009/2006 (GenBank: EU482453)	99.7% identity with DENV- 3/ VN/BID-V1009/2006 (GenBank: EU482453)
Titer by TCID ₅₀ Assay in C6/36 Cells by Fluorescent Antibody Assay ^{1,2} (7 days at 28°C with 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

²Test performed with Millipore anti-Dengue virus complex antibody, clone D3-2H2-9-21 (Millipore MAB8705)

³Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Sonia Bjorun Brower/

Sonia Bjorun Brower

14 SEP 2023

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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

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



BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370

Fax: 703-365-2898