

Dengue Virus Type 2, DENV-2/VN/BID-V1002/2006

Catalog No. NR-44085

Product Description:

Dengue virus type 2 (DENV-2), DENV-2/VN/BID-V1002/2006 was isolated from a human in Vietnam on December 1, 2006. NR-44085 lot 70066161 was produced by infecting *Aedes albopictus* (Asian Tiger) mosquito larval cells (clone C6/36; ATCC® CRL-1660™) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 7 days at 28°C with 5% CO₂.

Passage History:

Unknown/C6/36(10) (Prior to deposit at BEI Resources/BEI Resources)

Lot: 70066161

Manufacturing Date: 14FEB2024

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in C6/36 Cells	Report results	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 1230 nucleotides)	≥ 98% identity with DENV-2/VN/BID-V1002/2006 (GenBank: EU482447)	99.4% identity with DENV-2/VN/BID-V1002/2006 (GenBank: EU482447.1)
Titer by TCID ₅₀ Assay in C6/36 Cells by Immunofluorescent Assay ^{1,2} (7 days at 28°C with 5% CO ₂)	Report results	2.8 × 10 ⁶ TCID ₅₀ /mL
Amplification of Dengue Virus Sequence by RT-PCR	~ 1400 base pair amplicon	~ 1400 base pair amplicon
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.

²Performed using mouse anti-Dengue type 2 primary antibody (Millipore MAB8702) and goat anti-mouse IgG FITC secondary antibody (Millipore AP124F)

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

/Sonia Bjorum Brower/

Sonia Bjorum Brower

30 APR 2024

Technical Manager or designee, ATCC Federal Solutions

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BEI Resources

www.beiresources.org

E-mail: contact@beiresources.org

Tel: 800-359-7370

Fax: 703-365-2898