

Dengue Virus Type 2, DENV-2/VN/BID-V1007/2006

Catalog No. NR-44086

Product Description:

Dengue virus type 2, DENV-2/VN/BID-V1007/2006 was isolated from a human in Vietnam on December 15, 2006. NR-44086 was produced by infecting Aedes albopictus mosquito larval epithelial cells (C6/36; ATCC® CRL-1660™) with BEI Resources seed lot 63214458 and incubating in EMEM (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 7 days at 28°C with 5% CO₂ to produce this lot.

Passage History:

C(5)/C(3) (Prior to deposit at BEI Resources/BEI Resources); C = C6/36

Lot: 70075432

Manufacturing Date: 06MAY2025

TEST	SPECIFICATIONS	RESULTS
Identification by Immunofluorescence in C6/36 Cells	Fluorescence observed	Fluorescence observed
Sequencing Species-Specific Region NS4b and NS5 gene (~ 1060 nucleotides)	≥ 98% sequence identity with DENV-2/VN/BID-V1007/2006 (GenBank: EU482451)	99.9% sequence identity with DENV-2/VN/BID-V1007/2006 (GenBank: EU482451)
Titer by TCID₅₀ Assay in C6/36 Cells by Immunofluorescence^{1,2} (7 days at 28°C with 5% CO ₂)	Report results	1.6 × 10 ⁶ TCID ₅₀ /mL
Sterility test (Bact/ALERT 3D) iAST bottle (aerobic) at 32.5°C, 14-day incubation iNST bottle (anaerobic) at 32.5°C, 14-day incubation	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.

²Primary antibody mouse anti-Dengue 2 (Millipore MAB8702) and secondary antibody goat anti-mouse IgG fluorescent (Millipore AP129f)

/Sonia Bjorum Brower/

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17 JUL 2025

Technical Manager or designee, ATCC Federal Solutions

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