

Dengue Virus Type 1, DENV-1/VN/BID-V1792/2007

Catalog No. NR-44083

Product Description:

Dengue virus type 1, DENV-1/VN/BID-V1792/2007 was isolated from a human in Vietnam on August 9, 2007. NR-44083 was produced by infecting *Aedes albopictus* mosquito larval epithelial cells (clone C6/36; ATCC® CRL-1660™) with BEI Resources seed lot 63143137 and incubating in EMEM (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 3 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: 70075431

Manufacturing Date: 13MAY2025

TEST	SPECIFICATIONS	RESULTS
Identification by Indirect Fluorescent Antibody (IFA) Assay¹	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region Polyprotein (~ 870 nucleotides)	≥ 98% sequence identity with DENV-1/VN/BID-V1792/2007 (GenBank: FJ432734)	100% sequence identity with DENV-1/VN/BID-V1792/2007 (GenBank: FJ432734)
Titer by TCID₅₀ Assay in C6/36 Cells by Fluorescent Antibody Staining^{1,2} (12 days at 28°C with 5% CO ₂)	Report results	2.8 × 10 ⁷ 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

¹Using Anti-Dengue Virus Complex Antibody (Millipore MAB8705)

²The 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.

/Sonia Bjorum Brower/

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18 AUG 2025

Technical Manager or designee, ATCC Federal Solutions

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