

Dengue Virus Type 2, DENV-2/US/BID-V594/2006

Catalog No. NR-43280

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Product Description:

Dengue Virus Type 2, DENV-2/US/BID-V594/2006 was isolated from human serum in Puerto Rico in 2006. NR-43280 lot 70055162 was produced by infecting *Aedes albopictus* clone C6/36 cells (C6/36; ATCC® CRL-1660™) with seed material (BEI Resources lot 62484836) and incubating in DMEM (ATCC 30-2002™) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 10 days at 28°C with 5% CO₂.

Passage History:

C6/36(1)/C6/36(3) (Prior to deposit/BEI Resources); C6/36 = *Aedes albopictus* clone C6/36 cells

Lot: 70055162

Manufacturing Date: 14OCT2022

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using C6/36 Cells	Report results	Cell rounding and detachment
Identification by Indirect Fluorescent Antibody (IFA) Assay ¹	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~ 740 nucleotides)	≥ 98% identity with DENV-2/US/BID-V594/2006 (GenBank: EU482725)	100% identity with DENV-2/US/BID-V594/2006 (GenBank: EU482725)
Titer by TCID ₅₀ Assay in C6/36 Cells by IFA ^{1,2} (10 days at 28°C and 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ per 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

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.

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

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19 DEC 2022

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