SUPPORTING INFECTIOUS DISEASE RESEARCH

Dengue Virus Type 3, DENV-3/US/BID-V1043/2006

Catalog No. NR-43282

This reagent is the property of the U.S. Government.

Product Description:

Dengue virus type 3, DENV-3/US/BID-V1043/2006 was isolated from a human in Puerto Rico in 2006. NR-43282 lot 70058084 was produced by infecting Aedes albopictus mosquito larval epithelial cells (clone C6/36; ATCC[®] CRL-1660™) with BEI Resources lot 62623614 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:

C6(2)/C6(2) (Prior to deposit at BEI Resources/BEI Resources); C6 = C6/36 cells

Lot: 70058084

Manufacturing Date: 09FEB2023

TEST	SPECIFICATIONS	RESULTS
Identification by Indirect Fluorescent Antibody (IFA) Assay ¹	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~ 910 nucleotides)	≥ 98% identity with DENV- 3/US/BID-V1043/2006 (GenBank: EU482555.1)	99.9% identity with DENV- 3/US/BID-V1043/2006 (GenBank: EU482555.1)
Titer by TCID₅0 Assay in C6/36 Cells by IFA ^{1,2} (7 days at 28°C with 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ per mL
Functional Activity by RT-PCR Assay	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic ³	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	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. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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