SUPPORTING INFECTIOUS DISEASE RESEARCH

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

#### Catalog No. NR-43282

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### **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<sup>®</sup> CRL-1660™) with BEI Resources lot 62623614 and incubating in Eagle's Minimum Essential Medium (ATCC<sup>®</sup> 30-2003™) supplemented with 2% fetal bovine serum (ATCC<sup>®</sup> 30-2020<sup>™</sup>) for 7 days at 28°C with 5% CO<sub>2</sub>.

#### 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 <sup>1</sup>	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 <sup>1,2</sup> (7 days at 28°C with 5% CO <sub>2</sub> )	Report results	1.6 × 10 <sup>7</sup> TCID <sub>50</sub> 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 <sup>3</sup>	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

<sup>1</sup>Using Anti-Dengue Virus Complex Antibody (Millipore MAB8705) <sup>2</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation. <sup>3</sup>Atlas, 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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