

Dengue Virus Type 1, SL 6-6-04

Catalog No. NR-49744

Product Description:

Dengue virus Type 1 (DEN-1), SL 6-6-04, was isolated from a human in Sri Lanka on June 6, 2004, and contributed to WRCEVA by Aravinda deSilva of the Department of Microbiology and Immunology, University of North Carolina, Chapel Hill, North Carolina, USA. In order to remove contaminating mycoplasma, the first viral passage at BEI Resources was performed by lipofectamine-mediated transfection of extracted viral RNA. NR-49744 was produced by infecting *Aedes albopictus* mosquito larval epithelial cells (C6/36; ATCC® CRL-1660™) with BEI Resources seed lot 63762274 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:

X(X)C(1)/C(3) (Prior to deposit at BEI Resources/BEI Resources); X= unknown C = C6/36

Lot: 70075433

Manufacturing Date: 06MAY2025

TEST	SPECIFICATIONS	RESULTS
Identification by Immunofluorescence in C6/36 Cells	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region Polyprotein gene (~ 900 nucleotides)	≥ 98% sequence identity with DEN-1, SL 6-6-04 (GenBank: OR389015)	99.8% sequence identity with DEN-1, SL 6-6-04 (GenBank: OR389015)
Titer by TCID ₅₀ Assay in C6/36 Cells by Immunofluorescence ^{1,2} (7 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

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 1 (Millipore MAB8701) and secondary antibody goat anti-mouse IgG fluorescent (Millipore AP129f)

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21 JUL 2025

Technical Manager or designee, ATCC Federal Solutions

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