

Dengue Virus Type 3, S 9311 (PRS 228762)

Catalog No. NR-49754

Product Description:

Dengue virus type 3 (DENV3), S 9311 (PRS 228762) was isolated from a human in 1963 in Puerto Rico.

Passage History:

MXC1/C2 (Prior to deposit at BEI Resources/BEI Resources); M = Mosquito; X = Unknown; C = C6/36 cells¹

Lot: 70016042²

Manufacturing Date: 05JUL2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in C6/36 cells ¹	Report results	Cell rounding and detachment
Identification by Indirect Fluorescent Antibody (IFA) Assay ³	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~ 880 nucleotides)	≥ 98% identity with DENV3, DENV3/Puerto-Rico/1963/ PRS-228762-AC27 (GenBank: KT452800.1)	100% identity with DENV3, DENV3/Puerto-Rico/1963/ PRS-228762-AC27 (GenBank: KT452800.1)
Titer by TCID ₅₀ Assay in in C6/36 Cells with IFA Readout ^{1,4,5,6}	Report results	1.6 × 10 ⁶ TCID ₅₀ per mL
Amplification of DEN-3 Sequence by RT-PCR	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ⁷ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	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

¹Aedes albopictus clone C6/36 cells (ATCC® CRL-1660™)

²Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 7 days at 28°C with 5% CO₂.

³Using Anti-Dengue Virus Type 3 Antibody (Millipore MAB8703)

⁴The 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.

⁵Assay plates were incubated 14 days at 28°C and 5% CO₂

⁶Using Anti-Dengue Virus Complex Antibody (Millipore MAB8705)

⁷Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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