

Dengue Virus Type 4, 703-4

Catalog No. NR-48801

Product Description: Cell lysate and supernatant from *Aedes albopictus* mosquito larval clone C6/36 cells¹ infected with dengue virus type 4 (DEN-4), 703-4

Lot²: 70004551

Manufacturing Date: 17MAY2017

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Identification by Infectivity Using 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 (914 nucleotides) | Consistent with DEN-4, 703-4 | 99% identity with DEN-4, 703-4 (GenBank: AF231726) |
| Titer by TCID ₅₀ Assay ^{4,5} in C6/36 Cells ¹ with IFA Readout ³ | Report results | 1.6 × 10 ⁸ TCID ₅₀ per mL |
| Amplification of Dengue Virus Sequence by RT-PCR | ~ 1000 bp amplicon | ~ 1000 bp amplicon |
| Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic 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 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 |

¹*Aedes 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 Complex Antibody (Millipore MAB8705)

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.

⁵9 days at 28°C and 5% CO₂

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 29 SEP 2017

Signature: 

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