

Dengue Virus Type 1 (DEN-1), Hawaii

Catalog No. NR-82

Derived from ATCC® VR-1254™

Product Description: Cell lysate and supernatant from African green monkey kidney (Vero) cells¹ infected with dengue virus type 1 (DEN-1), Hawaii.

Lot²: 64218899

Manufacturing Date: 02MAY2016

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Identification by Infectivity in Vero Cells ¹ | Report results | Cell rounding and sloughing |
| Identification by Indirect Fluorescent Antibody (IFA) Assay ³ | Fluorescence observed | Fluorescence observed |
| Sequencing of Species-Specific Region (860 nucleotides) | Consistent with DEN-1, Hawaii | 99% identity with DEN-1, Hawaii (GenBank: KM204119) |
| Titer by TCID ₅₀ Assay ^{4,5} in Vero Cells ¹ with IFA Readout ³ | Report results | 8.9 × 10 ⁶ 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 |

¹Vero cells: ATCC® CCL-81™

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 11 days at 33°C with 5% CO₂.

³Using Anti-Dengue Virus Type I Antibody (Millipore MAB8701)

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.

⁵14 days at 33°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: 18 JUL 2016

Signature: 

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