SUPPORTING INFECTIOUS DISEASE RESEARCH

## Dengue Virus Type 1 (DEN-1), Hawaii

## Catalog No. NR-82

Derived from ATCC<sup>®</sup> VR-1254<sup>™</sup>

**Product Description:** Cell lysate and supernatant from African green monkey kidney (Vero) cells<sup>1</sup> infected with dengue virus type 1 (DEN-1), Hawaii.

## Lot<sup>2,3</sup>: 58964764

## Manufacturing Date: 02MAR2010

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells <sup>1</sup>	Report results	Cell rounding and sloughing
Identification by Indirect Fluorescent Antibody (IFA) Assay <sup>4</sup>	Fluorescence observed	Fluorescence observed
Sequencing of DEN-1 Specific Region (886 nucleotides)	Consistent with DEN-1	Consistent with DEN-1
Titer by TCID <sub>50</sub> Assay in Vero Cells with IFA Readout <sup>1,5,6</sup>	Report results	1.6 x 10 <sup>7</sup> TCID <sub>50</sub> /mL
RT-PCR Assay of Extracted RNA Using DEN-1 Specific Primers	~ 1200 bp amplicon	~ 1200 bp amplicon
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>7</sup> , 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 <sub>2</sub>	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 Test Article nucleic acid	None detected None detected	None detected None detected

<sup>1</sup>Vero cells: ATCC<sup>®</sup> CCL-81<sup>™</sup>

<sup>2</sup>The inoculum for this lot of NR-82 was NRS-82 (Lot 57806399). NRS-82 was derived from ATCC<sup>®</sup> VR-1254<sup>TM</sup>.

<sup>3</sup>Grown in Minimum Essential Medium containing Earle's salts and non-essential amino acids (Invitrogen<sup>™</sup> 10370-021) supplemented with 2% fetal bovine serum (ATCC<sup>®</sup> 30-2020), 2 mM L-glutamine (Invitrogen<sup>™</sup> 25030-081), and 1 mM sodium pyruvate (Invitrogen<sup>™</sup> 11360-070) for 10 days at 33°C with 5% CO<sub>2</sub>.

<sup>4</sup>Using monoclonal antibody specific to dengue complex (Millipore MAB8705)

<sup>5</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>6</sup>10 days at 33°C with 5% CO<sub>2</sub>

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

Date: 23 JUN 2010

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Title:

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