

**Japanese Encephalitis Virus, SA 14-2-8**

**Catalog No. NR-2326**

**Product Description:** Cell lysate and supernatant from African green monkey kidney (Vero) cells<sup>1</sup> infected with Japanese encephalitis virus (JEV), SA 14-2-8.

**Lot<sup>2</sup>: 58138631**

**Manufacturing Date: 15APR2008**

| TEST   | SPECIFICATIONS   | RESULTS  |
|--|--|--|
| Identification by Infectivity in Vero Cells <sup>1</sup>   | Report results   | Refractile rounding and sloughing (Figure 1)   |
| Identification by Indirect Fluorescent Antibody Assay <sup>3</sup>   | Fluorescence observed  | Fluorescence observed  |
| Sequencing of JEV Specific Sequence (~ 1050 bp)  | Consistent with JEV  | Consistent with JEV  |
| Titer by TCID <sub>50</sub> Assay <sup>4,5</sup> in Vero Cells <sup>1</sup>  | Report results   | 1.6 X 10 <sup>7</sup> TCID <sub>50</sub> /mL   |
| RT-PCR Assay of Extracted RNA Using JEV Specific Primers   | ~ 1750 bp amplicon   | ~ 1750 bp amplicon   |
| <b>Sterility (21-day incubation)</b><br>Harpo's HTYE broth <sup>6</sup> , 37°C and 26°C, aerobic<br>Trypticase soy broth, 37°C and 26°C, aerobic<br>Sabouraud broth, 37°C and 26°C, aerobic<br>Sheep blood agar, 37°C, aerobic<br>Sheep blood agar, 37°C, anaerobic<br>Thioglycollate broth, 37°C, anaerobic<br>DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub> | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth |
| <b>Mycoplasma Contamination</b><br>Agar and broth culture (14-day incubation at 37°C)<br>DNA Detection by PCR of Test Article nucleic acid   | None detected<br>None detected   | None detected<br>None detected   |

<sup>1</sup>Vero cells: ATCC® CCL-81™

<sup>2</sup>Grown in Minimum Essential Medium containing Earle's salts and non-essential amino acids (Invitrogen™ 10370-021) supplemented with 2% irradiated fetal bovine serum (Cambrex® 14-471F), 2 mM L-glutamine (Invitrogen™ 25030-081), and 1 mM sodium pyruvate (Invitrogen™ 11360-070) for 5 days at 37°C and 5% CO<sub>2</sub>.

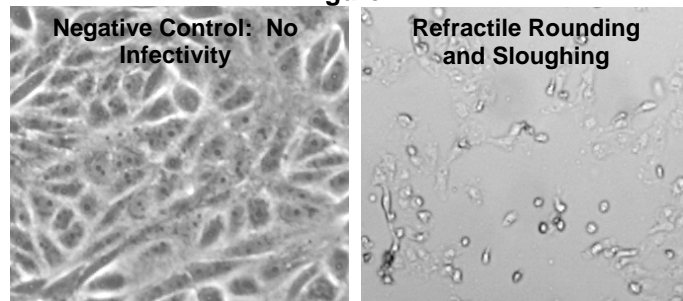
<sup>3</sup>Using monoclonal antibody reactive with JEV (Millipore MAB8743)

<sup>4</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>5</sup>7 days at 37°C and 5% CO<sub>2</sub>

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

**Figure 1**



**Date:** 31 JUL 2008

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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