

**Venezuelan Equine Encephalitis Virus, 71U384**

**Catalog No. NR-21710**

**Product Description:** Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero)<sup>1</sup> infected with Venezuelan equine encephalitis virus (VEEV), 71U384

**Lot<sup>2</sup>: 60858745**

**Manufacturing Date: 18JUN2012**

| TEST   | SPECIFICATIONS  | RESULTS   |
|--|---|---|
| Identification by Infectivity Using Vero Cells <sup>1</sup>  | Report results  | Rounding and detachment   |
| Sequencing of Species-Specific Region (718 nucleotides)  | Consistent with VEEV, 71U384  | 99% identity with VEEV, 71U384 (GenBank: AF055842)                                      |
| Titer by TCID <sub>50</sub> Assay <sup>3,4</sup> in Vero Cells <sup>1</sup>  | Report results  | 8.9 × 10 <sup>8</sup> TCID <sub>50</sub> per mL   |
| Functional Activity by RT-PCR Assay  | ~ 750 bp amplicon   | ~ 750 bp amplicon   |
| <b>Sterility (21-day incubation)</b><br>Harpo's HTYE broth <sup>5</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 | 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)  | None detected   | None detected   |

<sup>1</sup>Vero cells: ATCC® CCL-81™

<sup>2</sup>Grown 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 3 days at 37°C with 5% CO<sub>2</sub>.

<sup>3</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>4</sup>10 days at 37°C and 5% CO<sub>2</sub>

<sup>5</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 24 MAR 2014

**Signature:** 

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

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