

**Venezuelan Equine Encephalitis Virus, MX09-M50**

**Catalog No. NR-21719**

**Product Description:** Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero)<sup>1</sup> infected with Venezuelan equine encephalitis virus (VEEV), MX09-M50

**Lot<sup>2</sup>: 61803610**

**Manufacturing Date: 07JUN2013**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity Using Vero Cells <sup>1</sup>	Report results	Refractile rounding and sloughing
Sequencing of Species-Specific Region (721 nucleotides)	Consistent with VEEV, MX09-M50	99% identity with VEEV, MX09-M50 (GenBank: KC344479)
Titer by TCID <sub>50</sub> Assay <sup>3,4</sup> in Vero Cells <sup>1</sup>	Report results	2.8 × 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> Harpo's HTYE broth <sup>5</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
<b>Mycoplasma Contamination</b> 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

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

<sup>2</sup>Grown in Dulbecco's Modified Eagle's Medium modified to contain 4 mM L-glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate, and 1.5 g/L sodium bicarbonate (ATCC<sup>®</sup> 30-2002™) supplemented with 2% fetal bovine serum (ATCC<sup>®</sup> 30-2020™) for 2 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>5 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:** 10 NOV 2014

**Signature:** 

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

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