

## Certificate of Analysis for NR-49923

## West Nile Virus, KERN 5281

## Catalog No. NR-49923

**Product Description:** West Nile virus (WNV), KERN 5281 was isolated from a mosquito (*Culex tarsalis*) in Kern County, California, USA on June 2, 2005. Each vial contains cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells<sup>1</sup> infected with WNV, KERN 5281.

Passage History: V1/V3 (Prior to deposit at BEI Resources/BEI Resources); V = Vero cells<sup>1</sup>

Lot<sup>2,3</sup>: 70004668 Manufacturing Date: 06NOV2017

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 760 nucleotides)	Consistent with WNV	Consistent with WNV <sup>4</sup>
Titer by TCID <sub>50</sub> Assay <sup>5,6</sup> in Vero cells <sup>1</sup> by Cytopathic Effect	Report results	1.6 × 10 <sup>8</sup> TCID <sub>50</sub> per mL
Amplification of WNV Sequence by RT-PCR	~ 920 base pair amplicon	~ 920 base pair amplicon
Sterility (21-day incubation)  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
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

<sup>&</sup>lt;sup>1</sup>Vero: ATCC<sup>®</sup> CCL-81™

## /Heather Couch/

Heather Couch 10 AUG 2018

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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<sup>&</sup>lt;sup>2</sup>The second virus passage at BEI Resources was performed by polyethylenimine (Polyplus-transfection® SA jetPEI® 101-10)-mediated transfection of extracted viral nucleic acid in order to remove contaminating mycoplasma.

<sup>&</sup>lt;sup>3</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<sup>®</sup> 30-2003) supplemented with 2% fetal bovine serum (ATCC<sup>®</sup> 30-2020) for 3 days at 37°C with 5% CO<sub>2</sub>

<sup>&</sup>lt;sup>4</sup>Sequence information for WNV, KERN 5281 is not available in the NCBI database; nucleotide sequence obtained for NR-49923 lot 70004668 is 100% identical to numerous WNV strains.

<sup>&</sup>lt;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.

 $<sup>^65</sup>$  days at 37°C and 5%  $CO_2$ 

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