

West Nile Virus, LA 13-06

Catalog No. NR-49925

Product Description: West Nile virus (WNV), LA 13-06 was isolated from a *Cyanocitta cristata* (Blue Jay) in Lafayette Parish, Louisiana, USA, on October 9, 2006. Each vial contains cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells¹ infected with WNV, LA 13-06.

Passage History: V1/V2 (Prior to deposit at BEI Resources/BEI Resources); V = Vero cells¹

Lot²: 70004672

Manufacturing Date: 13JUN2017

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero cells ¹	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 750 nucleotides)	Consistent with WNV	99.6% identity with WNV, WNV-1/ <i>Cyanocitta cristata</i> /USA/06VER01768/2006 (GenBank: KX547553.1) ³
Titer by TCID ₅₀ Assay ^{4,5} in Vero cells ¹ by Cytopathic Effect	Report results	2.8 × 10 ⁸ TCID ₅₀ per mL
Amplification of WNV Sequence by RT-PCR	~ 920 base pair amplicon	~ 920 base pair amplicon
Sterility (21-day incubation) Harpó's HTYE broth ⁶ , 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 ₂	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 extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹Vero: ATCC® CCL-81™

²Grown 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 4 days at 37°C with 5% CO₂

³There is no sequence information for WNV, LA 13-06 in the NCBI database or any of the various virology databases. The polyprotein gene sequence obtained for NR-49925 is nearly identical to the published sequence of WNV, WNV-1/*Cyanocitta cristata*/USA/06VER01768/2006, a WNV strain isolated from a mosquito pool in Louisiana in 2006 and consistent with numerous WNV strains.

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁵4 days at 37°C and 5% CO₂

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

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