

West Nile Virus, TX 9410 (D0325)

Catalog No. NR-49797

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells¹ infected with West Nile virus (WNV), TX 9410 (D0325)

Passage History: V1/V3 (Prior to deposit at BEI Resources/BEI Resources); V# = Number of passages in Vero cells²

Lot³: 64498483

Manufacturing Date: 14NOV2016

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Identification by Infectivity in Vero cells | Cell rounding and detachment | Cell rounding and detachment |
| Sequencing of Species-Specific Region (790 nucleotides) | Consistent with WNV | Consistent with WNV ⁴ |
| Titer by TCID ₅₀ Assay ^{5,6} in Vero cells ¹ | Report results | 2.8 × 10 ⁹ TCID ₅₀ per mL |
| Amplification of WNV Sequence by RT-PCR | ~ 920 bp amplicon | ~ 920 bp amplicon |
| Sterility (21-day incubation) Harpo's HTYE broth ⁷ , 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™

²The second virus passage at BEI Resources was performed by lipofectamine transfection of extracted viral nucleic acid in order to remove contaminating mycoplasma.

³Grown 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

⁴Sequence information for WNV, TX 9410 (D0325) is not available in the NCBI database; nucleotide sequence obtained for NR-49797, Lot No. 64498483 is highly similar to numerous WNV strains.

⁵The 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.

⁶6 days at 37°C and 5% CO₂

⁷Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 22 JUN 2017

Signature: 

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