

West Nile Virus, DAK AR MG 979

Catalog No. NR-49919

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells¹ infected with West Nile virus (WNV), DAK AR MG 979

Passage History: SM4V2/V3 (Prior to deposit at BEI Resources/BEI Resources); SM# = Number of passages in suckling mice; V# = Number of passages in Vero cells^{1,2}

Lot³: 64498506

Manufacturing Date: 12DEC2017

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero cells ¹	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region (~ 780 nucleotides)	Consistent with WNV, DAK AR MG 979	100% identity with WNV, DAK AR MG 979 (GenBank: HM147823)
Titer by TCID ₅₀ Assay ^{4,5} in Vero cells ¹ by CPE	Report results	8.9 × 10 ⁸ TCID ₅₀ per mL
Amplification of WNV Sequence by RT-PCR	~ 890 bp amplicon	~ 890 bp amplicon
Sterility (21-day incubation) Harpo'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™

²The second viral 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.

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 5 days at 37°C with 5% CO₂

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.

⁵5 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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