SUPPORTING INFECTIOUS DISEASE RESEARCH

Powassan Virus, T18-23-81

Catalog No. NR-51183

Product Description:

Powassan virus (POWV), T18-23-81 was isolated from the environment from a tick (*Ixodes cookei*) on Marmota spp. on July 25, 1981, in Ontario, Canada. NR-51183 lot 70015200 was produced by infecting *Chlorocebus* (former *Cercopithecus*) *aethiops* kidney epithelial cells (Vero; ATCC[®] CCL-81[™]) and incubating in Eagle's Minimum Essential Medium (ATCC[®] 30-2003[™]) supplemented with 2% fetal bovine serum (ATCC[®] 30-2020[™]) for 7 days at 37°C with 5% CO₂.

Passage History:

SM(1)/V(3) (Prior to deposit at BEI Resources/BEI Resources); SM = Suckling mouse; V = Vero cells

Lot: 70015200

Manufacturing Date: 24JAN2020

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TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region NS5 protein gene (~ 2710 nucleotides)	≥ 98% identity with POWV, T18-23-81, (GenBank: AF310943)	99.8% identity with POWV, T18-23-81 (GenBank: AF310943)
Titer by TCID ₅₀ Assay in Vero Cells by Cytopathic Effect ¹ (10 days at 37°C with 5% CO ₂)	Report results	2.8 × 10 ⁷ TCID₅₀/mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic ²	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination	-	
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

¹The 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.
²Atlas, Ronald M. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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Technical Manager or designee, ATCC Federal Solutions

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by NIAID

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