

Western Equine Encephalitis Virus, IMP 181

Catalog No. NR-49784

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Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells¹ infected with western equine encephalitis virus (WEEV), IMP 181 (also referred to as Imperial).

Passage History:

Submission laboratory: Vero (2)

BEI Resources: Vero¹ (2)

Lot²: 64480270

Manufacturing Date: 28SEP2016

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells¹	Cell rounding and detachment	Cell rounding and detachment
Genotypic Analysis Sequencing of Strain-Specific Region (~ 690 nucleotides)	≥ 98% sequence identity to WEEV, IMP 181 (Imperial) (GenBank: GQ287641)	100 % sequence identity to WEEV, IMP 181 (Imperial) (GenBank: GQ287641)
Titer by TCID₅₀ Assay in Vero Cells^{1,3,4}	Report results	8.9 × 10 ⁷ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic Tryptic Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic 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 (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 1 days at 37°C and 5% CO₂.

³3 days at 37°C and 5% CO₂

⁴TCID₅₀ (50% tissue culture infectious dose): The TCID₅₀ is the 50% infectious endpoint in tissue 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. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer of a virus preparation.

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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20 SEP 2018

Program Manager or designee, ATCC Federal Solutions

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