

Whitewater Arroyo Virus, AV 9310135

Catalog No. NR-12237

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Product Description: Clarified supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero E6) infected with Whitewater Arroyo virus (WWAV), AV 9310135

Lot¹: 58454279

Manufacturing Date: 2009

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero E6 Cells ² Using RT-PCR ³	Report results	Infectious, no cytopathic effect
Sequencing of Species-Specific Region (368 nucleotides)	Consistent with WWAV, AV 9310135	99% identity with WWAV, AV 9310135 (GenBank: AF228063)
Titer by TCID ₅₀ Assay ⁴ in Vero E6 Cells ² Using RT-PCR ³	Report results	1.6 × 10 ⁴ TCID ₅₀ per mL
Functional Activity by RT-PCR Assay	~ 380 bp amplicon	~ 380 bp amplicon
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 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 No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected	None detected None detected

¹Grown and deposited by Charles H. Calisher, Ph.D., Department of Microbiology, Immunology and Pathology, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, Colorado

²Vero E6 cells; ATCC® CRL-1586™

³RNA used for RT-PCR was extracted from infected cell lysate and supernatant after 14 days incubation at 37°C and 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.

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

Date: 29 MAY 2014

Signature: 

Title: Technical Manager, BEI Authentication or designee

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