

Madariaga Virus, BeAr436087 (formerly Eastern Equine Encephalitis Virus)

Catalog No. NR-41568

Product Description: Madariaga virus (MADV), BeAr436087 was isolated in Vero cells from a mosquito pool collected in Fortaleza, Brazil in 1985, and passaged twice in suckling mouse brains to generate RNA. An infectious cDNA clone of the viral genome was constructed and rescued by electroporation of *in vitro* transcribed RNA.

Passage History: SM2T1/V2 (Prior to deposit at BEI Resources/BEI Resources); SM = Suckling mice; T = Mammalian cell transfection; V = Vero 76 cells¹

Lot²: 62111118

Manufacturing Date: 02JUL2014

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero 76 cells¹	Refractile cell rounding	Refractile cell rounding
Sequencing of Species-Specific Region (~ 910 nucleotides)	≥ 98% identity with MADV, BeAr436087 (GenBank: EF151503.1)	100% identity with MADV, BeAr436087 (GenBank: EF151503.1)
Titer by TCID₅₀ Assay^{3,4} in Vero 76 cells¹ by Cytopathic Effect	Report results	1.6 × 10 ⁹ TCID ₅₀ per mL
Amplification of MADV Sequence by RT-PCR	~ 1100 base pair amplicon	~ 1100 base pair 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 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

¹*Cercopithecus aethiops* kidney epithelial cells (Vero 76; ATCC® CCL-1587™)

²Grown in Dulbecco's Modified Eagle's Medium containing 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate, and 1500 mg per L sodium bicarbonate (ATCC® 30-2002) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 2 days at 37°C with 5% CO₂

³The 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.

⁴Assay plates were incubated 7 days at 37°C and 5% CO₂

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

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