

Venezuelan Equine Encephalitis Virus, Mena II

Catalog No. NR-120

(Derived from ATCC® VR-1372™)

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Contributor:

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Product Description:

Virus Classification: *Togaviridae, Alphavirus*

Agent: Venezuelan equine encephalitis (VEE) virus

Strain/Isolate: Mena II

Subtype/Serotype: IE

Original Source: Isolated in 1962 from a human in Almirante, Panama¹

Comments: VEE virus, Mena II (V-532-031-022) was deposited at ATCC® in 1993 by the National Institutes of Allergy and Infectious Diseases (NIAID). The nucleotide sequence of the complete genome for VEE virus, Mena II has been reported (GenBank: AF075252).²

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney (Vero) cells infected with VEE virus, Mena II.

Packaging/Storage:

NR-120 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Recommended Growth Conditions:

Host: Vero cells

Growth Medium: Eagle's Minimum Essential Medium supplemented with 10% fetal bovine serum, 1% glutamine and 1% non-essential amino acids, or equivalent

Infection: Cells should be 70 to 90% confluent (not 100% confluent)

Incubation: 2 to 3 days at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding and cell lysis

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Venezuelan Equine Encephalitis Virus, Mena II, NR-120."

Biosafety Level: 3

Appropriate safety procedures should always be used with

this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm. This publication recommends that all persons working in or entering laboratory or animal care areas where activities with Venezuelan equine encephalitis virus are being conducted should have documented evidence of satisfactory vaccination.

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References:

1. Powers, A. M., et al. "Repeated Emergence of Epidemic/Epizootic Venezuelan Equine Encephalitis from a Single Genotype of Enzootic Subtype ID Virus." J. Virol. 71 (1997): 6697-6705. PubMed: 9261393.
2. Kinney, R. M., M. Pfeffer, and J. Meissner. Direct submission (1998). GenBank: AF075252.
3. Kinney, R. M., et al. "Nucleotide Sequences of the 26S

mRNAs of the Viruses Defining the Venezuelan Equine Encephalitis Antigenic Complex." Am. J. Trop. Med. Hyg. 59 (1998): 952–964. PubMed: 9886206.

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