

Venezuelan Equine Encephalitis Virus, 213391

Catalog No. NR-21714

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Togaviridae, Alphavirus*

Species: Venezuelan equine encephalitis virus

Strain: 213391

Original Source: Venezuelan equine encephalitis virus (VEEV), 213391 was isolated in 2003 in Guabito, Bocas del Toro, Panama. The virus was passaged once in suckling mice, and subsequently in Vero African green monkey kidney cells.¹⁻³

Comments: VEEV have been classified into six major antigenic subtypes, and additional variants are described within subtypes I and III.⁴ VEEV, 213391 is a subtype ID virus.¹⁻³

Note: To remove contaminating mycoplasma from the virus preparation deposited to BEI Resources, viral RNA was extracted and transfected into *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™).

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with VEEV, 213391.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-21714 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen 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.

Growth Conditions:

Host: Vero cells (ATCC® CCL-81™)

Growth Medium: Dulbecco's Modified Eagle's Medium modified to contain 4 mM L-glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate, and 1.5 g/L sodium bicarbonate, supplemented with 2% fetal bovine serum

Infection: Cells should be 90% to 100% confluent

Incubation: 2 to 7 days at 37°C and 5% CO₂

Cytopathic Effect: Rounding and detachment

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Venezuelan Equine Encephalitis Virus, 213391, NR-21714."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Weaver, S. C., Personal Communication.
2. Powers, A. M., et al. "Repeated Emergence of Epidemic/Epizootic Venezuelan Equine Encephalitis from a Single Genotype of Enzootic Subtype IE Virus." J. Virol. 71 (1997): 6697-6705. PubMed: 9261393.
3. Quiroz, E., et al. "Venezuelan Equine Encephalitis in Panama: Fatal Endemic Disease and Genetic Diversity of Etiologic Viral Strains." PLoS Negl. Trop. Dis. 3 (2009): e472. PubMed: 19564908.
4. Young N. A. and K. M. Johnson. "Antigenic Variants of Venezuelan Equine Encephalitis Virus: Their Geographic Distribution and Epidemiologic Significance." Am. J. Epidemiol. 89 (1969): 286-307. PubMed: 5773424.

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