

**Venezuelan Equine Encephalitis Virus, 8138**

**Catalog No. NR-21721**

**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: 8138

Original Source: Venezuelan equine encephalitis virus (VEEV), 8138 was isolated in 1962 in El Rincon, Panama. The virus was passaged twice in chicken embryo cells, and subsequently in Vero African green monkey kidney cells.<sup>1-3</sup>

Comments: VEEV have been classified into six major antigenic subtypes, and additional variants are described within subtypes I and III.<sup>4</sup> VEEV, 8138 is a subtype ID virus.<sup>1-3</sup>

**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, 8138.

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

**Packaging/Storage:**

NR-21721 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 6 days at 37°C and 5% CO<sub>2</sub>

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, 8138, NR-21721."

**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/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/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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