

Venezuelan Equine Encephalitis Virus, 63Z1

Catalog No. NR-21711

For research use only. Not for human use.

Contributor:

Scott C. Weaver, Ph. D., Director, Institute for Human Infections and Immunity, and Scientific Director, Galveston National Laboratory, University of Texas Medical Branch, Galveston, Texas, USA

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Togaviridae, Alphavirus*

Species: Venezuelan equine encephalitis virus

Strain: 63Z1

Original Source: Venezuelan equine encephalitis virus (VEEV), 63Z1 was isolated in 1963 in Veracruz, Mexico. The virus was passaged once in suckling mice, and subsequently in Vero African green monkey kidney cells.^{1,2}

Comments: VEEV have been classified into six major antigenic subtypes, and additional variants are described within subtypes I and III.³ VEEV, 63Z1 is a subtype IE 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, 63Z1.

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

Packaging/Storage:

NR-21711 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, 63Z1, NR-21711."

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.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Weaver, S. C., Personal Communication.
2. Adams, A.P., et al. "Venezuelan Equine Encephalitis Virus Activity in the Gulf Coast Region of Mexico, 2003–2010." PLoS Negl. Trop. Dis. 6 (2012): e1875. PubMed: 23133685.
3. 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.

ATCC® is a trademark of the American Type Culture Collection.

