

Rift Valley Fever Virus, ZH501, Gamma-Irradiated

Catalog No. NR-37380

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Contributor and Manufacturer:

World Reference Center for Emerging Viruses and Arboviruses, University of Texas Medical Branch, Galveston, under government contract

Product Description:

Gamma-irradiated Rift Valley fever virus, ZH501^{1,2} was prepared from infected Vero E6 cell pellets. Cell pellets were re-suspended in 50 mM sodium borate and 120 mM sodium chloride (pH 9) containing 1% Triton X-100, gamma-irradiated (5×10^6 RADs) on dry ice and sonicated. Cell debris was removed by centrifugation and the supernatant containing the irradiated antigen was aliquoted and vialled.

NR-37380 was tested for residual virus following the procedure described by Towner, et al.³ No residual virus was recovered.

Material Provided:

Each vial contains 100 μ L of irradiated antigen in 50 mM sodium borate and 120 mM sodium chloride (pH 9) containing 1% Triton X-100. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-37380 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Rift Valley Fever Virus, ZH501, Gamma-Irradiated, NR-37380."

Biosafety Level: 1

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. Meegan, J. M. "The Rift Valley Fever Epizootic in Egypt 1977-78. 1. Description of the Epizootic and Virological Studies." Tran. R. Soc. Trop. Med. Hyg. 73 (1979) 618-623. PubMed: 538803.
2. Bird, B. H., et al. "Complete Genome Analysis of 33 Ecologically and Biologically Diverse Rift Valley Fever Virus Strains Reveals Widespread Virus Movement and Low Valley Genetic Diversity Due to Recent Common Ancestry." J. Virol. 81 (2007): 2805-2816. PubMed: PubMed: 17192303.
3. Towner, J. S., et al. "High-Throughput Molecular Detection of Hemorrhagic Fever Virus Threats with Applications for Outbreak Settings." J. Infect. Dis. 196 Suppl. 2 (2007) S205-S212. PubMed: 17940951.

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