

Tick-Borne Encephalitis Virus, Hypr, Gamma-Irradiated

Catalog No. NR-48954

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Contributor and Manufacturer:

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

Product Description:

Gamma-irradiated tick-borne encephalitis virus, Hypr^{1,2} was prepared from infected Vero E6 cell pellets. Cell pellets were resuspended in 50 mM sodium borate and 120 mM sodium chloride (pH 9) containing 1% Triton X-100, gamma-irradiated (5 × 10⁶ RADs) on dry ice and sonicated. Cell debris was removed by centrifugation and the supernatant containing the irradiated antigen was aliquoted and vialled.

NR-48954 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 µL 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-48954 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: Tick-Borne Encephalitis Virus, Hypr, Gamma-Irradiated, NR-48954."

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. The International Catalog of Arboviruses Including Certain Other Viruses of Vertebrates, Centers for Disease Control and Prevention. <https://wwwn.cdc.gov/arbocat/VirusDetails.aspx?ID=182>
2. Walner, G., et al. "Characterization and Complete Genome Sequences of High- and Low-Virulence Variants of Tick-Borne Encephalitis Virus." [J. Gen. Virol.](#) 77 (1996): 1035-1042. PubMed: 12504568.
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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