Product Information Sheet for NR-49912

Una Virus, MAC 150

Catalog No. NR-49912

For research use only. Not for use in humans.

Contributor:
World Reference Center for Emerging Viruses and Arboviruses, University of Texas Medical Branch, Galveston, Texas, USA

Manufacturer:
BEI Resources

Product Description:
Virus Classification: *Togaviridae*, *Alphavirus*
Species: Una virus
Strain/Isolate: MAC 150
Original Source: Una virus (UNAV), MAC 150 was isolated from a sentinel hamster in Miranda Province, Venezuela, on October 12, 1997.[1,2] In order to remove contaminating mycoplasma, the first viral passage at BEI Resources was performed by lipofectamine-mediated transfection of extracted viral RNA.[1]
Comments: The non-structural protein gene of UNAV, MAC 150 has been sequenced (GenBank: DQ487375).

UNAV is a New World alphavius that can cause an acute febrile illness accompanied by severe and persistent arthritis. UNAV was first identified in northern Brazil in 1959. In addition to hamsters, the virus has been isolated from horses as well as *Aedes*, *Dasyprocta*, and *Psorophora* mosquitoes, and antibodies have been detected in birds, horses and humans. However, little is known about the distribution, transmission cycle, or human disease potential of UNAV.

Material Provided:
Each vial contains approximately 1.0 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with UNAV, MAC 150.

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

Packaging/Storage:
NR-49912 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: *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™)
Growth Medium: Eagle's Minimum Essential Medium (EMEM; ATCC® 30-2003) supplemented with 2% fetal bovine serum (FBS; ATCC® 30-2020), or equivalent
Infection: Cells should be 80% to 95% confluent
Incubation: 3 to 4 days at 37°C
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Una Virus, MAC 150, NR-49912."

Biosafety Level: 2
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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:
1. Tesh, R. B., Personal Communication.
2. Powers, A. M., et al. "Genetic Relationships among Mayaro and Una Viruses Suggest Distinct Patterns of Transmission." Am. J. Trop. Med. Hyg. 75 (2006): 461-469. Pubmed: 16968922.

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