

## Una Virus, MAC 150

### Catalog No. NR-49912

### For research use only. Not for human use.

#### 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.<sup>1,2</sup> In order to remove contaminating mycoplasma, the first viral passage at BEI Resources was performed by lipofectamine-mediated transfection of extracted viral RNA.

UNAV is a New World alphavirus 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 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 containing Earle's Balanced Salt Solution, non-essential

amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 80% to 95% confluent

Incubation: 1 to 5 days at 37°C and 5% CO<sub>2</sub>

Cytopathic Effect: Cell rounding and detachment

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH, as part of the WRCEVA program: 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. 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. 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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