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:

<table>
<thead>
<tr>
<th>Virus Classification</th>
<th>Togaviridae, Alphavirus</th>
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</thead>
<tbody>
<tr>
<td>Species</td>
<td>Una virus</td>
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<tr>
<td>Strain/Isolate</td>
<td>MAC 150</td>
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<tr>
<td>Original Source</td>
<td>Una virus (UNAV), MAC 150 was isolated from a sentinel hamster in Miranda Province, Venezuela on October 12, 1997. In order to remove contaminating mycoplasma, the first viral passage at BEI Resources was performed by lipofectamine-mediated transfection of extracted viral RNA.</td>
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</tbody>
</table>

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 -80°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:

<table>
<thead>
<tr>
<th>Host</th>
<th>Cercopithecus aethiops kidney epithelial cells (Vero; ATCC® CCL-81™)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth Medium</td>
<td>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</td>
</tr>
</tbody>
</table>

Infection: Cells should be 80% to 95% confluent
Incubation: 1 to 5 days at 37°C and 5% CO₂
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

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References:
1. Tesh, R. B., Personal Communication.

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