Western Equine Encephalitis Virus, CO921356

Catalog No. NR-41569
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Contributor:
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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Togaviridae, Alphavirus
Species: Western equine encephalitis virus
Strain/Isolate: CO921356
Comments: Western equine encephalitis virus (WEEV), CO921356 was isolated in Vero cells from a pool of Culex tarsalis (C. tarsalis) mosquitoes collected in Larimer City, Colorado, USA on July 30, 1992.1,2 The complete genome sequence of WEEV, CO921356 has been determined (GenBank: KJ554979).

WEEV is a mosquito-borne alphavirus that causes potentially fatal infections in horses and humans.3,4 Survivors of western equine encephalitis (WEE) often suffer permanent neurological sequelae. WEEV circulates enzootically among passerine birds and is transmitted primarily by C. tarsalis, with mammals participating in a secondary cycle. Humans and horses do not appear to be amplifying hosts.

WEEV is the descendent of an ancient recombination event between Sindbis virus-like and eastern equine encephalitis virus-like progenitors.5,6 There were widespread outbreaks of WEE in western North America in the 1930s through 1950s, but the incidence of the disease has decreased dramatically in recent decades. This reduction in disease incidence has been accompanied by a decline in the frequency of virus detection in mosquito surveillance programs.7

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from Aedes albopictus mosquito larval epithelial cells (clone C6/36; ATCC® CRL-1660™) infected with WEEV, CO921356.

Packaging/Storage:
NR-41569 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.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Western Equine Encephalitis Virus, CO921356, NR-41569.”

Biosafety Level: 3

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References:


2. Weaver, S. C., Personal Communication.


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