Mayaro Virus, Guyane  

Catalog No. NR-49911

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Contributor:
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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Togaviridae, Alphavirus  
Species: Mayaro virus  
Strain/Isolate: Guyane  
Original Source: Mayaro virus (MAYV), Guyane was isolated from a human in Guyane, French Guiana on February 28, 1996,1-3 and contributed to WRCEVA by A. Talarmin, of the Institut Pasteur de la Guyane, Cayenne, French Guiana.

MAYV is a New World alphavirus that is the etiologic agent of Mayaro fever, an acute febrile illness sometimes accompanied by severe and persistent arthritis. MAYV was first isolated in Trinidad in 1954, and there have been sporadic outbreaks of Mayaro fever in South America since. The enzootic transmission cycle of MAYV is not fully understood, but the occurrence of relatively large outbreaks of Mayaro fever4,5 and the competence of Aedes mosquitoes for transmission of MAYV6 suggest the potential for an urban human-mosquito-human transmission cycle to emerge.

There are two distinct genotypes of MAYV, D and L. Genotype D includes viruses isolated from all countries where MAYV has been detected, while genotype L strains have been found only in Brazil.3,4 Guyane is a D genotype virus.

Material Provided:  
Each vial contains approximately 1 mL of cell lysate and supernatant from Cercopithicus aethiops kidney epithelial cells (Vero; ATCC® CCL-81™) infected with MAYV, Guyane.

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

Packaging/Storage:  
NR-49911 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:  
Host: Cercopithicus 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 85% to 95% confluent  
Incubation: 2 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: Mayaro Virus, Guyane, NR-49911.”

Biosafety Level: 2


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

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