La Crosse Virus, 6716-05

Catalog No. NR-51643

For research use only. Not for use in humans.

Contributor:
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Manufacturer:
BEI Resources

Product Description:

Virus Classification: Peribunyaviridae, Orthobunyavirus
Species: La Crosse virus
Group: California Serogroup (CSG)
Strain/Isolate: 6716-05
Original Source: La Crosse virus (LACV), 6716-05 was isolated from a pool of mosquitoes (Aedes triseriatus) in Fairfield, Connecticut, USA in 2005 and contributed to Arbovirus Reference Collection (ARC) by Philip Armstrong of The Connecticut Agricultural Research Station, Connecticut, USA.1,2

LACV is a tri-segmented negative sense RNA virus, with a genome consisting of L, M and S segments.3 LACV belongs to the California serogroup (CSG), a closely related group of orthobunyaviruses in the family Peribunyavirus. LACV is the most pathogenic member of the CSG, and the second most common after West Nile virus.4 LACV is a leading cause of encephalitis, especially among children, in the Midwest and Appalachian areas of the USA, although the range is expanding in North America.

LACV, 6716-05 is the first La Crosse virus isolated in the New England area of the USA. Isolate 6716-05 represents a distinct lineage of LACV, diverging earliest from other strains found in southeastern, central and northeastern USA.2

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from Cercopithecus aethiops kidney epithelial cells infected with LACV, 6716-05.

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

Packaging/Storage:
NR-51643 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 E6; ATCC® CRL-1586™)
Growth Medium: Dulbecco’s Modified Eagle’s Medium modified to contain 4 mM L-glutamine, 4500 mg per L glucose, 1 mM sodium pyruvate, and 1500 mg per L sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent
Infection: Cells should be 70% to 80% confluent
Incubation: 3 to 6 days at 37°C and 5% CO2
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: La Crosse Virus, 6716-05, NR-51643.”

Biosafety Level: 2

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References:

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