

Product Information Sheet for NR-540

La Crosse Virus

Catalog No. NR-540

(Derived from ATCC® VR-744™)

For research use only. Not for human use.

Contributor:

ATCC®

Product Description:

Virus Classification: Bunyaviridae, Orthobunyavirus,

California encephalitis virus

Agent: La Crosse virus

Original Source: Isolated from post-mortem brain tissue of a 4-year-old child that died of meningoencephalitis in La Crosse, Wisconsin, 1960

Comments: La Crosse virus was deposited at ATCC® in 1973 by Robert E. Shope, M.D., Director, Yale Arbovirus Research Unit, Yale University School of Medicine, New Haven, Connecticut. The complete nucleotide sequences of the large (L; GenBank: AF528165; U12396),^{2,3} medium (M; GenBank: AF528166), ^{2,4,5} and small (S; GenBank: AF528167)^{2,6} RNA segments of La Crosse virus have been determined.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney (Vero) cells infected with La Crosse virus.

Packaging/Storage:

NR-540 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen on dry ice 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: Vero cells (ATCC[®] CCL-81™)

Growth Medium: Eagle's Minimum Essential Medium supplemented with 2% fetal bovine serum, or equivalent (lot-specific details are on the Certificate of Analysis)

Infection: Cells should be 80 to 90% confluent (not 100% confluent)

Incubation: 1 to 3 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: La Crosse Virus, NR-540."

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. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosftv/bmbl4/bmbl4toc.htm.

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References:

- 1. Thompson, W. H., B. Kalfayan, and R. O. Anslow. "Isolation of California Encephalitis Group Virus from a Fatal Human Illness." Am. J. Epidemiol. 81 (1963): 245-253. PubMed: 14261030.
- 2. Hughes, M. T., B. J. Kempf, C. D. Blair, and B. J. Beaty. "Complete Sequence of the Bunyavirus, La Crosse Virus, Human/78." Unpublished. GenBank: AF528165, AF528166, and AF528167.
- 3. Roberts, A., et al. "Completion of the La Crosse Virus Genome Sequence and Genetic Comparisons of the L Proteins of the Bunyaviridae." Virology 206 (1995): 742-745. PubMed: 7831835. GenBank: U12396.

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- Jacoby, D. R., et al. "Expression of the La Crosse M Segment Proteins in a Recombinant Vaccinia Expression System Mediates pH-Dependent Cellular Fusion." <u>Virology</u> 193 (1993): 993–996. PubMed: 8460503.
- Cabradilla, C. D. Jr., B. P. Holloway, and J. F. Obijeski. "Molecular Cloning and Sequencing of the La Crosse Virus S RNA." <u>Virology</u> 128 (1983): 463–468. PubMed: 6684362.
- Armstrong, P. M. and T. G. Andreadis. "A New Genetic Variant of La Crosse Virus (*Bunyaviridae*) Isolated from New England." <u>Am. J. Trop. Med. Hyg.</u> 75 (2006): 491– 496. PubMed: 16968927.
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