

Product Information Sheet for NR-51644

La Crosse Virus, R97841d

Catalog No. NR-51644

For research use only. Not for use in humans.

Contributor:

Brandy J. Russell, Centers for Disease Control and Prevention, Division of Vector-Borne Diseases, Arbovirus Reference Collection, Fort Collins, Colorado, USA

Manufacturer:

BEI Resources

Product Description:

Virus Classification: Peribunyaviridae, Orthobunyavirus

Species: La Crosse virus

Group: California Serogroup (CSG)

Strain/Isolate: R97841d

Original Source: La Crosse virus (LACV), R97841d was isolated from brain of a 6-year-old male human child in Tennessee, USA in July 2012 and contributed to Arbovirus Reference Collection (ARC) by Jason Velez at Arboviral Disease Branch (ADB) Diagnostics and Reference Activity (DRA) from Centers for Disease Control and Prevention, USA.¹

LACV is a tri-segmented negative sense RNA virus, with a genome consisting of L, M and S segments.² 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.³ LACV is a leading cause of encephalitis, especially among children, in the Midwest and Appalachian areas of the US, although the range is expanding in North America.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with LACV, R97841d.

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

Packaging/Storage:

NR-51644 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:

www.beiresources.org

<u>Host</u>: *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/L glucose, 1 mM sodium pyruvate, and 1500 mg/L sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

<u>Infection</u>: Cells should be 80% to 90% confluent <u>Incubation</u>: 3 to 5 days at 37°C and 5% CO₂ <u>Cytopathic Effect</u>: Cell rounding and sloughing

Citation

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: La Crosse Virus, R97841d, NR-51644."

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

- 1. Russell, B. J., Personal Communication.
- Evans, A. B. and K. E. Peterson. "Throw Out the Map: Neuropathogenesis of the Globally Expanding California

BEI Resources E-mail: contact@beiresources.org

Tel: 800-359-7370 Fax: 703-365-2898



Product Information Sheet for NR-51644

Serogroup of Orthobunyaviruses." <u>Viruses</u> 11 (2019): 794. PubMed: 31470541.

 Harding, S., et al. "La Crosse Virus: A Scoping Review of the Global Evidence." <u>Epidemiol. And Infect.</u> 147 (2018): 1-13. PubMed: 30516125.

ATCC[®] is a trademark of the American Type Culture Collection.

BEI Resources www.beiresources.org E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898