

Jamestown Canyon Virus, 61V-2235

Catalog No. NR-536

(Derived from ATCC® VR-712™)

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Contributor:

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Product Description:

Virus Classification: *Bunyaviridae*, *Orthobunyavirus*,
California encephalitis virus

Agent: Jamestown Canyon virus

Strain/Isolate: 61V-2235

Original Source: Isolated from adult female mosquitoes
(*Culiseta inornata*) collected in Greeley, Colorado^{1,2}

Comments: Jamestown Canyon virus, 61V-2235 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 small (S; GenBank: U12796)³ and medium (M; GenBank: U88058)⁴ RNA segments of Jamestown Canyon virus, 61V-2235 have been determined. The S RNA segment codes for both the nucleocapsid protein (GenPept: AAC54043)⁵ and a non-structural protein (GenPept: AAC54044),⁵ while the M RNA segment codes for a polyprotein (GenPept: AAB93842).⁴

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney (Vero) cells infected with Jamestown Canyon virus, 61V-2235.

Packaging/Storage:

NR-536 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: Jamestown Canyon Virus, 61V-2235, NR-536."

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. 4th ed. 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/biosfty/bmb14/bmb14toc.htm.

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References:

1. Taylor, R. M. ed. Arbovirus Catalog. 1st ed. (1967): 781. U.S. Public Health Service Publication No. 1760.
2. Berge, T. O., ed. International Catalogue of Arboviruses Including Certain Other Viruses of Vertebrates. 2nd ed. Atlanta: Center for Disease Control, 1975. U.S.

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Department of Health, Education and Welfare Publication
No. (CDC) 75-8301.

3. Bowen, M. D., et al. "Determination and Comparative Analysis of the Small RNA Genomic Sequences of California Encephalitis, Jamestown Canyon, Jerry Slough, Melao, Keystone and Trivittatus Viruses (*Bunyaviridae*, Genus *Bunyavirus*, California Serogroup)." *J. Gen. Virol.* 76 (1995): 559–572. PubMed: 7897347.
4. Campbell, W. P. and C. Huang. "Sequence Comparisons of Medium RNA Segment among 15 California Serogroup Viruses." *Virus Res.* 61 (1999): 137–144. PubMed: 10475083.
5. Bowen, M. D. "Direct Submission." 30 Jul. 1994.

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