

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-537

Keystone Virus, B64-5587.05

Catalog No. NR-537

(Derived from ATCC® VR-722™)

For research use only. Not for human use.

Contributor:

ATCC®

Manufacturer:

BEI Resources

Product Description:

Virus Classification: Bunyaviridae, Orthobunyavirus,

California encephalitis virus Species: Keystone virus Strain/Isolate: B64-5587.05

<u>Original Source</u>: Isolated from engorged mosquitoes (Aedes atlanticus tormentor) trapped in 1964 in the Tampa Bay area

of Florida^{1,2}

Comments: Keystone virus, B64-5587.05 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: U12801)³ and medium (M; GenBank: AF123489)⁴ RNA segments of Keystone virus have been determined. The S RNA segment codes for both the nucleocapsid (GenPept: AAC54053)³ protein and a nonstructural protein (GenPept: AAC54054),³ while the M RNA segment codes for a polyprotein (GenPept: AAD53045).⁴

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with Keystone virus, B64-5587.05.

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

Packaging/Storage:

NR-537 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:

<u>Host</u>: Cercopithecus aethiops kidney epithelial cells (Vero; ATCC[®] CCL-81™)

<u>Growth Medium</u>: Minimum Essential Medium supplemented with 2% fetal bovine serum, 2 mM L-glutamine, and 1 mM sodium pyruvate, or equivalent (lot-specific details are on the Certificate of Analysis)

Infection: Cells should be 80% to 90% confluent Incubation: 6 to 8 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: Keystone Virus, B64-5587.05, NR-537."

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.

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References:

- Bond, J. O. et al. "California Group Arboviruses in Florida and Report of a New Strain, Keystone Virus." <u>Public</u> <u>Health Rep.</u> 81 (1966): 607–613. PubMed: 4957255.
- 2. Lewis, A. L., et al. "Isolations of a California Group Arbovirus from Florida Mosquitoes." <u>Am. J. Trop. Med. Hyg.</u> 14 (1965): 451–455. PubMed: 14292752.

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- 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.
- Campbell, W. P. and C. Huang. "Sequence Comparisons of Medium RNA Segment among 15 California Serogroup Viruses." <u>Virus Res.</u> 61 (1999): 137–144. PubMed: 10475083.

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