

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-12235

Bear Canyon Virus, VH-C067

Catalog No. NR-12235

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For research use only. Not for human use.

Contributor and Manufacturer:

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Product Description:

Virus Classification: Arenaviridae, Mammarenavirus

Species: Bear Canyon mammarenavirus

Strain: VH-C067

<u>Original Source</u>: Bear Canyon virus (BCNV), was first isolated from California mice (*Peromyscus californicus*) captured near the Riverside-Orange County line in California, USA in 1998. Detailed information on the origin of the VH-C067 strain is not available.

<u>Comments</u>: The taxonomy of the family *Arenaviridae* has recently been revised with the creation of a new genus (*Reptarenavirus*) and the renaming of the genus *Arenavirus* as *Mammarenavirus*. To remove ambiguity between species and virus names, previously accepted species names were replaced with non-Latinized binomial names distinct from the virus names. Thus, *Bear Canyon mammarenavirus* is the new taxonomic home of BCNV.²

Although BCNV was originally isolated from the California mouse, later studies indicated that the big-eared woodrat (*Neotoma macrotis*) is the principal host.³ BCNV is a Tacaribe serocomplex virus.⁴ Although BCNV has not been definitively associated with human infections, Tacaribe complex viruses native to North America are implicated as causative agents of human disease in the United States.⁵

Material Provided:

Each vial contains approximately 1 mL of clarified supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC $^{\otimes}$ CRL-1586 $^{\text{TM}}$) infected with Bear Canyon virus, VH-C067.

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

Packaging/Storage:

NR-12235 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: Vero E6 cells (ATCC® CRL-1586)

Growth Medium: Eagle's Minimum Essential Medium containing 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 mg/mL sodium bicarbonate, supplemented with 2% fetal bovine serum

Infection: Cells should be 60% to 90% confluent

Incubation: 10 to 14 days at 37°C and 5% CO₂
Cytopathic Effect: None observed

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Bear Canyon Virus, VH-C067, NR-12235."

Biosafety Level: 3

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:

- 1. Fulhorst, C. F., et al. "Bear Canyon Virus: an Arenavirus Naturally Associated with the California Mouse (*Peromyscus californicus*)." Emerg. Infect. Dis. 8 (2002): 717-721. PubMed: 12095441.
- 2. ICTV Taxonomy History for Bear Canyon mammarenavirus
- Milazzo, M. L., et al. "Epizootiology of Tacaribe Serocomplex Viruses (*Arenaviridae*) Associated with Neotomine Rodents (*Cricetidae*, *Neotominae*) in Southern California." <u>Vector Borne Zoonotic Dis.</u> 15 (2015): 156-166. PubMed: 25700047.
- Cajimat, M. N., et al. "Diversity and Phylogenetic Relationships among the North American Tacaribe Serocomplex Viruses (Family Arenaviridae)." <u>Virology.</u> 421 (2011): 87-95. PubMed: 21982818.
- Milazzo, M. L., G. L. Campbell, and C. F. Fulhorst. "Novel Arenavirus Infection in Humans, United States." <u>Emerg. Infect. Dis.</u> 17(2011): 1417-1420. PubMed: 21801618.

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