

Inkoo Virus, KN 3641

Catalog No. NR-539

(Derived from ATCC® VR-729™)

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Contributor:

ATCC®

Manufacturer:

BEI Resources

Product Description:

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

Species: Inkoo virus

Strain/Isolate: KN 3641

Original Source: : Isolated in 1964 from 34 unengorged adult female mosquitoes (*Aedes communis/punctor*) collected in Inkoo commune in southern Finland¹

Comments: Inkoo virus, KN 3641 was deposited at ATCC® in 1974 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: U47137)² and medium (M; GenBank: U88059)³ RNA segments of Inkoo virus, KN 3641 have been determined. The S RNA segment codes for both the nucleocapsid protein (GenPept: AAC55330)² and a nonstructural protein (GenPept: AAC55331),² while the M RNA segment codes for a polyprotein (GenPept: AAB93840).³

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with Inkoo virus, KN 3641.

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

Packaging/Storage:

NR-539 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: *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™)

Growth Medium: 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: 5 to 7 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: Inkoo Virus, KN 3641, NR-539.”

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:

1. Brummer-Korvenkontio, M., et al. “Arboviruses in Finland. IV. Isolation and Characterization of Inkoo Virus, a Finnish Representative of the California Group.” *Am. J. Trop. Med. Hyg.* 22 (1973): 404–413. PubMed: 4145218.
2. Huang, C., R. E. Shope, B. Spargo, and W. P. Campbell. “The S RNA Genomic Sequences of Inkoo, San Angelo,

- Serra do Navio, South River and Tahyna Bunyaviruses.”
J. Gen. Virol. 77 (1996): 1761–1768. PubMed: 8760423.
- 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.

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