

Lumbo Virus, AR 1881 (SA Ar 1881)

Catalog No. NR-533

(Derived from ATCC® VR-401™)

For research use only. Not for human use.

Contributor:

ATCC®

Manufacturer:

BEI Resources

Product Description:

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

Species: Lumbo virus

Strain/Isolate: AR 1881 (SA Ar 1881)

Original Source: Isolated in 1959 from mosquitoes [*Aedes (Skusea) pembaensis*] collected at Lumbo, Mozambique¹.

Comments: Lumbo virus, AR 1881 (SA Ar 1881) was deposited at ATCC® in 1968 by Yale Arbovirus Research Unit, Yale University School of Medicine, New Haven, Connecticut. The complete nucleotide sequences of the small (S; GenBank: X73468)² and medium (M; GenBank: AF123484)³ RNA segments of Lumbo virus have been determined. The S RNA segment codes for both the nucleocapsid protein (GenPept: CAA51851)² and a nonstructural protein (GenPept: CAA51852),² while the M RNA segment codes for a polyprotein (GenPept: AAD53040).³

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells infected with Lumbo virus, AR 1881 (SA Ar 1881).

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

Packaging/Storage:

NR-533 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: 2 to 4 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: Lumbo Virus, AR 1881 (SA Ar 1881), NR-533."

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. Kokernot, R. H., et al. "Isolation of Viruses from Mosquitoes Collected at Lumbo, Mozambique. I. Lumbo Virus, A New Virus Isolated from *Aedes (Skusea) pembaensis* Theobald." Am. J. Trop. Med. Hyg. 11 (1962): 678-682. PubMed: 14034311.
2. Dunn, E. F., D. C. Pritlove, and R. M. Elliott. "The S RNA Genome Segments of Batai, Cache Valley, Guaroa, Kairi,

Lumbo, Main Drain and Northway Bunyaviruses: Sequence Determination and Analysis." J. Gen. Virol. 75 (1994): 597–608. PubMed: 8126455.

3. 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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