

**Lymphocytic Choriomeningitis Virus,
Armstrong**

Catalog No. NR-15743

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Arenaviridae*, *Mammarenavirus*

Species: *Lymphocytic choriomeningitis mammarenavirus*

Strain: Armstrong

Original Source: Lymphocytic choriomeningitis virus (LCMV), was first isolated by Armstrong and Lillie in 1933 while attempting to transmit infectious material from a fatal case of the 1933 St. Louis encephalitis epidemic.¹ An apparently identical virus was subsequently isolated from two men suffering from acute bacteria-free lymphocytic meningitis in 1934.^{2,3}

Comments: 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, *Lymphocytic choriomeningitis mammarenavirus* is the new taxonomic home of LCMV.²

Material Provided:

Each vial contains approximately 1 mL of clarified supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero E6; ATCC® CRL-1586™) infected with LCMV, Armstrong.

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

Packaging/Storage:

NR-15743 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 70% confluent

Incubation: 10 to 14 days at 37°C and 5% CO₂

Cytopathic Effect: Little or none observed

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Lymphocytic Choriomeningitis Virus, Armstrong, NR-15743."

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/bmb15/index.htm.

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References:

1. Armstrong, C., and R. D. Lillie. "Experimental Lymphocytic Choriomeningitis of Monkeys and Mice Produced by a Virus Encountered in Studies of the 1933 St. Louis Encephalitis Epidemic." Public Health Rep. 49 (1934): 1019-1027. PubMed Central: 2016852.
2. Scott, T. F. and T. M. Rivers. "Meningitis in Man Caused by a Filterable Virus: I. Two Cases and the Method of Obtaining a Virus from their Spinal Fluids." J. Exp. Med. 29 (1936): 397-414. PubMed: 19870479.
3. Rivers, T. M. and T. F. Scott. "Meningitis in Man Caused by a Filterable Virus: II. Identification of the Etiological Agent." J. Exp. Med. 29 (1936): 415-432. PubMed: 19870480.
4. [ICTV Taxonomy History for Lymphocytic choriomeningitis mammarenavirus](#)

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