

Vaccinia Virus, Western Reserve, Recombinant Expressing Lymphocytic Choriomeningitis Virus, Armstrong 53b Nucleoprotein

Catalog No. NR-15499

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Contributor:

Michael J. Buchmeier, Ph.D., Professor, Department of Medicine, University of California, Irvine, provided under government contract

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Poxviridae, Orthopoxvirus*

Agent: Vaccinia virus

Strain: rVACV-LCMV GPC [Vaccinia virus (VACV), Western Reserve recombinant expressing the nucleoprotein (NP) of lymphocytic choriomeningitis virus (LCMV), Armstrong 53b]

Source:¹ A cDNA clone containing the entire ORF encoding the nucleoprotein from segment S of LCMV, Armstrong 53b was inserted into the pSC11 transfer vector, bringing it under the control of VACV p7.5 early/late promoter. Recombinant VACV was made by transfecting the transfer plasmid into CV-1 cells infected with the VACV Western Reserve strain. Recombinant virus was selected from infected cell lysates by plaquing on 143B TK⁻ cells.

LCMV is an Arenavirus (*Arenaviridae, Arenavirus*) which is the etiologic agent of lymphocytic choriomeningitis.²

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (BSC-40, ATCC[®] CRL-2761[™]) infected with recombinant vaccinia virus, rVACV-LCMV NP.

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

Packaging/Storage:

NR-15499 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen on dry ice 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: BSC-40 cells (ATCC[®] CRL-2761[™])

Growth Medium: Dulbecco's Modified Eagle Medium containing 4 mM L-glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate and 1500 mg/L sodium bicarbonate supplemented with 10% fetal bovine serum.

Infection: Cells should be 95% to 100% confluent

Incubation: 2 to 4 days at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Vaccinia Virus, Western Reserve, Recombinant Expressing Lymphocytic Choriomeningitis Virus, Armstrong 53b Nucleoprotein, NR-15499."

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/bmb15/index.htm.

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References:

1. Whitton, J. L., P. J. Southern and M. B. Oldstone. "Analyses of the Cytotoxic T Lymphocyte Responses to Glycoprotein and Nucleoprotein Components of Lymphocytic Choriomeningitis Virus." Virology 1622 (1988): 321-327. PubMed: 3257596.
2. 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.

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