

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-15496**

# Vaccinia Virus, Western Reserve, Recombinant Expressing Lassa Virus, Josiah Z Protein

## Catalog No. NR-15496

This reagent is the property of the U.S. Government.

## For research use only. Not for human use.

#### Contributor:

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#### Manufacturer:

**BEI Resources** 

## **Product Description:**

Virus Classification: Poxviridae, Orthopoxvirus

Agent: Vaccinia virus

Strain: rVACV-LASV Z [Vaccinia virus (VACV), Western Reserve recombinant expressing the Z protein of Lassa virus (LASV) Josiah]

Source: A cDNA clone containing the entire ORF encoding the Z protein from segment L of LASV Josiah was inserted into the pRB21 transfer vector, bringing it under the control of a synthetic VACV early/late promoter (PSYN). Recombinant VACV was made by transfecting the transfer plasmid into CV-1 cells infected with the VACV strain vRB12.

LASV is an Arenavirus (*Arenaviridae, Arenavirus*) which is the etiologic agent of Lassa fever.<sup>2</sup>

#### **Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (BSC-40, ATCC<sup>®</sup> CRL-2761™) infected with vaccinia virus, rVACV-LASV Z.

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

## Packaging/Storage:

NR-15496 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 1 mM sodium pyruvate, 4500 mg/L glucose, 4 mM L-glutamine and 1500 mg/L sodium bicarbonate, supplemented with 10% fetal bovine serum

Infection: Cells should be 90% to 100% confluent Incubation: 2 to 4 days at 37°C and 5% CO<sub>2</sub>
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 Lassa Virus, Josiah Z Protein, NR-15496."

#### 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.

#### **Disclaimers:**

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license is required. U.S. Government contractors may need a license before first commercial sale.

#### References:

- Kotturi, M. F., et al. "A Multivalent and Cross-Protective Vaccine Strategy Against Arenaviruses Associated with Human Disease." <u>PLoS Pathog.</u> 5 (2009): e1000695. PubMed: 20019801.
- Frame, J. D., et al. "Lassa Fever, A New Virus Disease of Man from West Africa. I. Clinical Description and Pathological Findings. <u>Am J. Trop. Med. Hyg.</u> 19 (1970): 670-676. PubMed: 4246571.

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