bei resources

SUPPORTING INFECTIOUS DISEASE RESEARCH

Vaccinia Virus, vSC56, Recombinant Expressing β-Galactosidase

Catalog No. NR-622

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For research use only. Not for human use.

Contributor:

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Manufacturer:

Viral Antigens, Inc. (now Meridian Life Science[®], Inc.)

Product Description:

Virus Classification: Poxviridae, Orthopoxvirus

Species: Vaccinia virus

- <u>Strain/Isolate</u>: vSC56 (WR recombinant expressing β-galactosidase)
- <u>Original Source</u>: Recombinant vaccinia virus, vSC56, was prepared by transfecting the transfer vector, pSC56, into cells infected with vaccinia virus strain WR. pSC56 contains a synthetic, vaccinia virus early/late promoter sequence and the *Escherichia coli lacZ* gene. Homologous recombination of pSC56 with vaccinia virus strain WR resulted in vSC56, a recombinant vaccinia virus expressing β-galactosidase.¹

Material Provided:

Each vial contains approximately 50 μ L of cell lysate and supernatant from infected HeLa cells (BEI Resources NR-524) in Iscove's Modified Dulbecco's Medium supplemented with 2% fetal bovine serum (FBS).

Packaging/Storage:

NR-622 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -65°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:

<u>Host</u>: HeLa cells (BEI Resources NR-524) <u>Growth Medium</u>: Iscove's Modified Dulbecco's Medium supplemented with 2% FBS

Infection: Cells should be approximately 90-95% confluent and virus added at a multiplicity of infection of 1

Incubation: 92 hours at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding and cell lysis

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Vaccinia Virus, vSC56, Recombinant Expressing β-Galactosidase, NR-622."

Biosafety Level: 2

Appropriate safety procedures should always be used with this

BEI Resources www.beiresources.org 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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

This publication recommends that all persons working in or entering laboratory or animal care areas where activities with vaccinia virus are being conducted should have documented evidence of satisfactory vaccination within the preceding ten years.

Disclaimers:

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References:

 Chakrabarti, S., J. R. Sisler and B. Moss. "Compact, Synthetic, Vaccinia Virus Early/Late Promoter for Protein Expression." <u>Biotechniques</u> 23 (1997): 1094-1097. PubMed: 9421642.

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