

Vaccinia Virus, vSC56, Recombinant expressing β -galactosidase

Catalog No. NR-793

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Contributor:

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Product Description:

Virus Classification: *Poxviridae, Orthopoxvirus*

Agent: Vaccinia virus

Strain: vSC56 (WR recombinant expressing β -galactosidase)

Preparation:¹ 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 *E. coli lacZ* gene. Homologous recombination of pSC56 with vaccinia virus strain WR resulted in vSC56, a recombinant vaccinia virus expressing β -galactosidase.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from infected human cervical cancer HeLa S3 cells (ATCC[®] CCL-2.2[™]).

Packaging/Storage:

The recombinant vaccinia virus preparation 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: HeLa S3 cells (ATCC[®] CCL-2.2[™])

Growth Medium: Minimum Essential Medium with Earle's salts and non-essential amino acids supplemented with 2% horse serum, or equivalent

Infection: Cells should be 24 to 48 hours old and 90% confluent (not 100% confluent)

Incubation: 72 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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Vaccinia Virus, vSC56, Recombinant expressing β -galactosidase, NR-793."

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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm.

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References:

1. Chakrabarti, S., J. R. Sisler, and B. Moss. "Compact, Synthetic, Vaccinia Virus Early/Late Promoter for Protein Expression." Biotechniques 23 (1997): 1094–1097. PubMed: 9421642.
2. Patent Pending. Serial Numbers: 07/987,546, 08/470,537, and 08/470,359.
3. International Patent Number: WO2004/053454.

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