

Product Information Sheet for NR-624

Vaccinia Virus, VV.NP-S-EGFP, Recombinant expressing **Enhanced Green Fluorescent Protein**

Catalog No. NR-624

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

For research use only. Not for human use.

Contributor:

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Product Description:

Virus Classification: Poxviridae, Orthopoxvirus

Agent: Vaccinia Virus

Strain: VV.NP-S-EGFP [WR recombinant expressing

enhanced green fluorescent protein (EGFP)]

Preparation: Recombinant vaccinia virus, VV.NP-S-EGFP, was constructed for immunological studies^{2,3} and contains a chimeric gene encoding the influenza virus nucleoprotein, the ovalbumin SIINFEKL peptide, and EGFP regulated by the P7.5 early/late promoter.4

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, Vaccinia Virus, VV.NP-S-EGFP, Recombinant expressing Enhanced Green Fluorescent Protein, NR-624."

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. 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 vears.

Disclaimers:

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References:

1. Earl, P. L., J. L. Americo, and B. Moss. "Development and Use of a Vaccinia Virus Neutralization Assay Based on

Biodefense and Emerging Infections Research Resources Repository

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- Antón, L. C., et al. "Intracellular Localization of Proteasomal Degradation of Viral Antigen." <u>J. Cell Biol.</u> 146 (1999): 113–124. PubMed: 10402464.
 Norbury, C. C., et al. "Visualizing Priming of Virus-Specific
- Norbury, C. C., et al. "Visualizing Priming of Virus-Specific CD8+ T Cells by Infected Dendritic Cells in Vivo." Nat. Immunol. 3 (2002): 265–271. PubMed: 11828323.
- Mackett, M., G. L. Smith, and B. Moss. "General Method for Production and Selection of Infectious Vaccinia Virus Recombinants Expressing Foreign Genes." <u>J. Virol.</u> 49 (1984): 857–864. PubMed: 6321770.
- 5. Patent Pending.

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NR-624_PS_1500_22FEB2006