

## **Cowpox Virus, Brighton Red Recombinant Expressing Enhanced Green Fluorescent Protein**

### **Catalog No. NR-9597**

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

#### **Contributor:**

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#### **Product Description:**

Virus Classification: *Poxviridae, Orthopoxvirus*

Agent: Cowpox Virus

Strain: Brighton Red recombinant expressing enhanced green fluorescent protein (GFP)

Preparation: A recombinant cowpox virus was constructed that expresses enhanced GFP under the control of the vaccinia virus p7.5 early/late promoter between the counterparts of the vaccinia virus Copenhagen genes J4R and J5L.<sup>1</sup>

#### **Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from infected African green monkey MA-104 Clone 1 cells (BEI Resources NR-595).

#### **Packaging/Storage:**

The recombinant cowpox virus preparation was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -70°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: MA-104 Clone 1 cells (ATCC® CRL-2378.1™ or BEI Resources NR-595)

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

Infection: Cells should be 80 to 90% confluent (not 100% confluent)

Incubation: 3 to 7 days at 37°C and 5% CO<sub>2</sub>

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: Cowpox Virus, Brighton Red Recombinant Expressing Enhanced Green Fluorescent Protein, NR-9597."

#### **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, 2007; see [www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm). This publication recommends that all persons working in or entering laboratory or animal care areas where activities with cowpox virus are being conducted should have documented evidence of satisfactory vaccination within the preceding ten years.

#### **Disclaimers:**

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#### **References:**

1. Goff, A., et al. "In vivo Imaging of Cidofovir Treatment of Cowpox Virus Infection." Virus Res. 128 (2007): 88-98. PubMed: 17524511.

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