

**Genomic DNA from Vaccinia Virus, Lister (Elstree)**

**Catalog No. NR-2635**

**For research use only. Not for use in humans.**

**Contributor:**  
ATCC®

**Manufacturer:**  
BEI Resources

**Product Description:**

Genomic DNA was isolated from a preparation of cell lysate and supernatant from African green monkey cells (Vero; ATCC® CCL-81™) infected with vaccinia virus, Lister (Elstree). Vaccinia virus, Lister (Elstree) was originally isolated from the skin of a sheep. The Lister (Elstree) strain was widely used during the World Health Organization program on the eradication of smallpox.<sup>1</sup> The complete genomic sequence of vaccinia virus, Lister (Elstree) has been determined (GenBank: [AY678276](#)).<sup>2</sup>

NR-2635 has been qualified for PCR applications by amplification of an approximately 1100 base pair sequence. NR-2635 is not intended for use as a standard for quantitative PCR. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

**Material Provided:**

Each vial contains a target amount of  $1 \times 10^8$  copies of viral genomic DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.5) containing sodium azide. The actual number of copies per vial may vary from 10-fold lower to 10-fold higher. The number of copies per vial and the concentration are shown on the Certificate of Analysis. The viral genomic DNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-2635 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic DNA from Vaccinia Virus, Lister (Elstree), NR-2635.”

**Biosafety Level: 1**

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

**Disclaimers:**

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**References:**

1. Ober, B. T., et al. “Immunogenicity and Safety of Defective Vaccinia Virus Lister: Comparison with Modified Vaccinia Virus Ankara.” *J. Virol.* 76 (2002): 7713-7723. PubMed: 12097585.
2. Morikawa, S., et al. “An Attenuated LC16m8 Smallpox Vaccine: Analysis of Full-Genome Sequence and Induction of Immune Protection.” *J. Virol.* 79 (2005): 11873-11891. PubMed: 16140764.

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