Vaccinia Virus, Lister (Elstree)

Catalog No. NR-51
(Derived from ATCC® VR-1549™)

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Contributor:
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Product Description:

Virus Classification: Poxviridae, Orthopoxvirus
Agent: Vaccinia virus (VACV)
Strain/Isolate: Lister (Elstree)
Original Source: Skin of sheep

Comments: The Lister (Elstree) strain of VACV was deposited at ATCC® by Dr. James H. Nakano at the Centers for Disease Control in 1978. The complete genomic sequence of VACV, Lister has been determined (GenBank: AY678276). The Lister (Elstree) strain was widely used during the World Health Organization program on the eradication of smallpox. Although very effective, it induced rare but severe adverse effects. This was one of the reasons for the discontinuation of vaccination after eradication.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney (Vero) cells infected with VACV, Lister (Elstree).

Packaging/Storage:
NR-51 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen 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: Vero cells (ATCC® CCL-81™)
Growth Medium: Eagle’s Minimum Essential Medium supplemented with 2% fetal bovine serum, or equivalent (lot-specific details are on the Certificate of Analysis)
Infection: Cells should be 80 to 90% confluent (not 100% confluent)
Incubation: 6 to 8 days 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, Lister (Elstree), NR-51.”

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/bioflsy/bmbi4toc.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.

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References:


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