Product Information Sheet for NR-727

Vaccinia Virus, Modified Vaccinia Ankara (MVA), Purified From BHK-21 Cells

Catalog No. NR-727

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Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Poxviridae, orthopoxvirus*
Agent: Vaccinia virus (VACV)
Strain: Modified VACV Ankara (MVA)
Source: NIAID, NIH
Comments: The early passage history of MVA is complex.[1] The complete genomic sequence of MVA has been determined (GenBank: U94848).[2]

MVA is a highly attenuated strain of vaccinia virus[3] and does not appear to replicate in most mammalian cells. Some experts feel MVA can be handled safely by trained personnel without the need for vaccination.

NR-727 was prepared by inoculation of hamster kidney cells (BHK-21) with VACV, MVA. The virus was purified from a crude cell lysate and supernatant by centrifugation through a 36% sucrose cushion.

A sucrose-purified preparation of BHK-21 cells for use as a control is available as BEI Resources NR-794.

Material Provided:

Each vial contains approximately 1 mL of NR-727 in TE (pH 7.4).

Packaging/Storage:

NR-727 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen 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: BHK-21 cells (ATCC® CCL-10™)
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 5 days at 37°C and 5% CO_2
Cytopathic Effect: Cell rounding and cell lysis

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Vaccinia Virus, Modified Vaccinia Ankara (MVA), Purified From BHK-21 Cells, NR-727."

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Mayr, A., V. Hochstein-Mintzel, and H. Stickl. "Passage History, Properties, and Applicability of the Attenuated Vaccinia Virus Strain MVA." Infection 3 (1975): 6–14.
2. Antoine, G., F. Scheiflinger, F. Dorner, and F. G. Falkner. "The Complete Genomic Sequence of the Modified Vaccinia Ankara Strain: Comparison with Other Orthopoxviruses." Virology 244 (1998): 365–396. PubMed: 9601507. GenBank: U94848.
3. Wyatt, L. S., et al. "Marker Rescue of the Host Range Restriction Defects of Modified Vaccinia Virus Ankara." Virology 251 (1998): 334–342. PubMed: 9837798.

Support Provided by NIAID

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