Product Information Sheet for NR-52

Vaccinia Virus, IHD

Catalog No. NR-52
(Derived from ATCC® VR-156™)

For research use only. Not for human use.

Contributor:
ATCC®

Product Description:
Virus Classification: *Poxviridae, Orthopoxvirus*
Agent: Vaccinia virus (VACV)
Strain/Isolate: IHD (International Health Division)
Source: Derived from the original New York City Board of Health (NYCBH) strain[1]
Comments: The IHD strain of vaccinia virus was deposited at ATCC® by Dr. J. Earle Officer of United States Army Biological Laboratories, Fort Detrick, Maryland in 1963. The coding sequences for several of the genes have been determined and are available in GenBank.

The IHD strain was propagated for many passages by intracerebral inoculation in mice and has similar virulence to the WR strain.[1,2] It is being used in a lethal respiratory infection model in mice to evaluate antiviral compounds.[2]

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from Rhesus monkey kidney (LLC-MK_2) cells infected with VACV, IHD.

Packaging/Storage:
NR-52 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: LLC-MK_2 cells (ATCC® CCL-7.1™)
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: 4 to 6 days at 37°C and 5% CO_2
Cytopathic Effect: Cell rounding and detachment

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, IHD, NR-52."

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 years.

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References:
1. Parker, R. F., et al. "Further Studies of the Infectious Unit of Vaccinia." J. Exp. Med. 74 (1941): 263–281.
2. Smee, D. F., et al. "Effects of Four Antiviral Substances on Lethal Vaccinia Virus (IHD Strain) Respiratory Infections in Mice." Int. J. Antimicrob. Agents 23 (2004): 430–437. PubMed: 15120719.

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