

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-88

Cowpox Virus, Brighton Red

Catalog No. NR-88

(Derived from ATCC® VR-302™)

For research use only. Not for human use.

Contributor:

ATCC[®]

Product Description:

Virus Classification: Poxviridae, Orthopoxvirus

<u>Agent</u>: Cowpox virus (CPV) <u>Strain/Isolate</u>: Brighton Red

Original Source: Finger lesion of cowman on a farm near

Brighton, England in September, 1937

Comments: CPV, Brighton Red was deposited at ATCC® in 1964 by Professor Allan W. Downie, Chair of Bacteriology, The University of Liverpool, England. The original isolate had been passed multiple times in guinea pigs and rabbits.² The complete genomic sequence of the CPV, Brighton Red has been determined (GenBank: NC_003663).³⁻⁶

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from African green monkey kidney (BS-C-1) cells infected with CPV, Brighton Red.

Packaging/Storage:

NR-88 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:

<u>Host</u>: BS-C-1 cells (ATCC[®] CCL-26™; also available as BEI Resources NR-525)

<u>Growth Medium</u>: Eagle's Minimum Essential Medium supplemented with 2% fetal bovine serum, or equivalent (lot-specific details are on the Certificate of Analysis)

<u>Infection</u>: Cells should be 80 to 90% confluent (not 100% confluent)

<u>Incubation</u>: 3 to 5 days at 37°C and 5% CO₂ <u>Cytopathic Effect</u>: 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, NR-88."

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 cowpox virus are being conducted should have documented evidence of satisfactory vaccination within the preceding ten years.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government make any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to negotiate a license. U.S. Government contractors may need a license before first commercial sale.

References:

- Davies, J. H. T., L. R. Janes, and A. W. Downie. "Cowpox Infection in Farmworkers." <u>Lancet</u> 235 (1938): 1534–1538.
- 2. Downie, A. W. "The Immunological Relationship of the

Biodefense and Emerging Infections Research Resources Repository P.O. Box 4137

P.O. BOX 4137

Manassas, VA 20108-4137 USA

www.beiresources.org

E-mail: contact@beiresources.org

Fax: 703-365-2898

800-359-7370



SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-88

- Virus of Spontaneous Cowpox to Vaccinia Virus." <u>Brit. J.</u> <u>Exp. Path.</u> 20 (1939): 158–176.
- Pickup, D. J., D. Bastia, H. O. Stone, and W. K. Joklik. "Sequence of Terminal Regions of Cowpox Virus DNA: Arrangement of Repeated and Unique Sequence Elements." <u>Proc. Natl. Acad. Sci. U.S.A.</u> 79 (1982): 7112–7116. PubMed: 6961398.
- Parsons, B. L. and D. J. Pickup. "Transcription of Orthopoxvirus Telomeres at Late Times During Infection." <u>Virology</u> 175 (1990): 69–80. PubMed: 2309453.
- Hu, F. Q. and D. J. Pickup. "Transcription of the Terminal Loop Region of Vaccinia Virus DNA is Initiated from the Telomere Sequences Directing DNA Resolution." <u>Virology</u> 181 (1991): 716–720. PubMed: 2014645.
- Hu, F. Q., C. A. Smith, and D. J. Pickup. "Cowpox Virus Contains Two Copies of an Early Gene Encoding a Soluble Secreted Form of the Type II TNF Receptor." <u>Virology</u> 204 (1994): 343–356. PubMed: 8091665.

 $\mathsf{ATCC}^{\$}$ is a trademark of the American Type Culture Collection.



800-359-7370

NR-88_PS_1230_21JUN2006

Fax: 703-365-2898