

Cowpox Virus, Brighton Red

Catalog No. NR-88

(Derived from ATCC® VR-302™)

Product Description: Cell lysate and supernatant from African green monkey kidney (BS-C-1) cells¹ infected with cowpox virus, Brighton Red.

Lot²: 3694113

Manufacturing Date: 10AUG2004

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in BS-C-1 Cells ¹	Cell rounding and lysis	Cell rounding and lysis
PCR Amplification of Species-Specific Sequence ³	Cowpox virus	Cowpox virus
Titer by TCID ₅₀ Assay ^{4,5} in BS-C-1 Cells ¹	Report results	2.5 X 10 ⁷ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of extracted NR-88 nucleic acid	None detected None detected	None detected None detected

¹BS-C-1 cells: ATCC® CCL-26™.

²Grown in Eagle's Minimum Essential Media containing Earle's salts and non-essential amino acids (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2021™) for 4 days at 37°C and 5% CO₂.

³Ropp, S. L., et al. "PCR Strategy for Identification and Differentiation of Smallpox and other Orthopoxviruses." *J. Clin. Microbiol.* 33 (1995): 2069–2076. PubMed: 7559950.

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁵11 days at 37°C and 5% CO₂ with media overlay.

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 13 JUN 2006

Signature: Signature on File

Title: Technical Manager, BEI Authentication

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