

Certificate of Analysis for NR-51

Vaccinia Virus, Lister (Elstree)

Catalog No. NR-51

(Derived from ATCC® VR-1549™)

Product Description: Cell lysate and supernatant from African green monkey kidney (Vero) cells¹ infected with vaccinia virus, Lister (Elstree).

Lot²: 3579602

Manufacturing Date: 12MAR2004

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells ¹	Cell rounding and cell lysis	Cell rounding and cell lysis
PCR Amplification of Species-Specific Sequence	Vaccinia virus	Vaccinia virus
Titer by TCID ₅₀ Assay ^{3,4} in Vero Cells ¹	Report results	2.8 X 10 ⁶ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 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 No growth No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹Vero cells: ATCC® CCL-81™.

²Grown in Eagle's Minimum Essential Medium containing Earle's salts and non-essential amino acids (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 7 days at 37°C and 5% CO₂.

³The 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.

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

⁵Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 13 JUN 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication

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