

**Vaccinia Virus, Modified Vaccinia Ankara (MVA)**

**Catalog No. NR-1**

**Product Description:**

NR-1 lot 7704329 was produced by infecting chicken embryo fibroblast (SL-29 CEF; ATCC® CRL-1590™) cells with VACV, MVA and incubating in Dulbecco's Modified Eagle's Medium supplemented with 5% fetal bovine serum and 5% tryptose phosphate broth for 2 days at 37°C with 5% CO<sub>2</sub>.

**Passage History:**

Unknown/CEF(1) (prior to deposit/BEI Resources) CEF = Chicken Embryo Fibroblast cells<sup>1</sup>

**Lot: 7704329**

**Manufacturing Date: 02DEC2006**

| TEST  | SPECIFICATIONS  | RESULTS   |
|---|---|---|
| Identification by Infectivity in CEF Cells  | Cell rounding and detachment  | Cell rounding and detachment  |
| Sequencing of Species-Specific Region   | Consistent with Vaccinia virus, MVA   | Consistent with Vaccinia virus, MVA   |
| Titer by TCID <sub>50</sub> Assay in CEF Cells by Cytopathic Effect <sup>2</sup><br>(10 days at 37°C with 5% CO <sub>2</sub> )  | Report results  | 8.9 × 10 <sup>6</sup> TCID <sub>50</sub> /mL <sup>3</sup>                               |
| <b>Sterility (21-day incubation)</b><br>Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>4</sup><br>Trypticase Soy broth, 37°C and 26°C, aerobic<br>Sabouraud broth, 37°C and 26°C, aerobic<br>Sheep blood agar, 37°C, aerobic<br>Sheep blood agar, 37°C, anaerobic<br>Thioglycollate broth, 37°C, anaerobic<br>DMEM with 10% FBS, 37°C, aerobic | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth |
| <b>Mycoplasma Contamination</b><br>Agar and broth culture (14-day incubation at 37°C)<br>DNA detection by PCR of extracted Test Article nucleic acid  | None detected<br>None detected  | None detected<br>None detected  |

<sup>1</sup>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.

<sup>2</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

<sup>3</sup>Titer verified 20MAR2023

<sup>4</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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