

Genomic DNA from Vaccinia Virus, Modified Vaccinia Ankara (MVA)

Catalog No. NR-2634

Product Description:

Genomic RNA was isolated from a preparation of cell lysate and supernatant from chicken embryo fibroblast cells (SL-29; ATCC® CRL-1590™) infected with vaccinia virus, MVA infected with vaccinia virus (VV), MVA (BEI Resources lot 7704329) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic DNA is in a background of cellular nucleic acid.

Lot: 70053989

Manufacturing Date: 30JUN2022

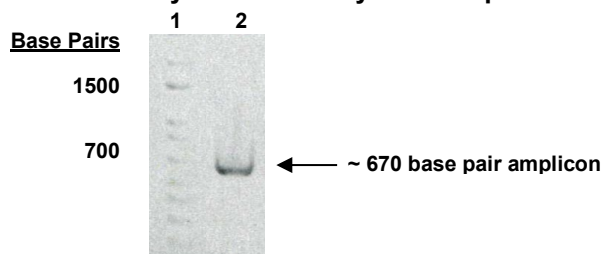
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 650 nucleotides)	≥ 98% identity with VV, MVA (GenBank: U94848.1)	99.9% identity with VV, MVA (GenBank: U94848.1)
Functional Activity by PCR Amplification¹	~ 670 base pair amplicon	~ 670 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by PicoGreen® Measurement (Viral and Cellular)²	Report results	0.04 ng per 100 µL (0.0004 ng per µL)
Estimated Amount per Vial²	Report Results	0.04 ng
Genome Copy Number Using qPCR (Post-vial)	Report results	5.3 × 10 ⁵ genome copies per mL
Virus Inactivation 10% of total yield inoculated on SL-29 cells and evaluated for cytopathic effect ³	No viable virus detected	No viable virus detected

¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-2634 in a 50 µL reaction

²Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

³Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of VV as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells.

Figure 1: Functional Activity of NR-2634 by PCR Amplification



Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder

Lane 2: PCR product from 1 µL of NR-2634

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23 AUG 2022

Certificate of Analysis for NR-2634

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