

Genomic DNA from Vaccinia Virus, Lederle-Chorioallantoic

Catalog No. NR-2637

Product Description:

Genomic DNA was isolated from a preparation of cell lysate and supernatant from chicken embryo fibroblast cells (SL-29; ATCC® CCL-1590™) infected with vaccinia virus, Lederle-Chorioallantoic (BEI Resources lot 3632402) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906).

Lot: 70054716

Manufacturing Date: 01AUG2022

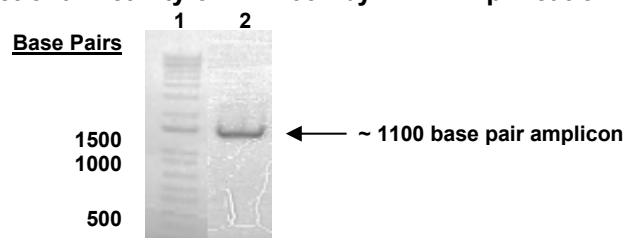
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 660 nucleotides)	≥ 98% identity with vaccinia virus, complete genome (GenBank: NC_006998)	98.0% identity with vaccinia virus, complete genome (GenBank: NC_006998)
Functional Activity by PCR Amplification¹	~ 1100 base pair amplicon	~ 1100 base pair amplicon (Figure 1)
Estimated Concentration by PicoGreen® Measurement (Viral and Cellular)²	Report results	0.02 ng per 100 µL (0.0002 ng per µL)
Estimated Amount per Vial²	Report results	0.02 ng
Genome Copy Number Using qPCR (Post-vial)	Report results	3.89 × 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™ DNA Polymerase (Bio-Rad 170-8870) with 5 µL of NR-2637 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 vaccinia virus as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells.

Figure 1: Functional Activity of NR-2637 by PCR Amplification



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

Lane 2: PCR product from NR-2637

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Technical Manager or designee, ATCC Federal Solutions

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