

Genomic DNA from Vaccinia Virus, Lister (Elstree)

Catalog No. NR-2635

Product Description:

Genomic DNA was isolated from a preparation of cell lysate and supernatant from African green monkey cells (Vero; ATCC® CCL-81™) infected with vaccinia virus, Lister (Elstree) (BEI Resources lot 70018915) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic DNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70053990

Manufacturing Date: 18JUL2022

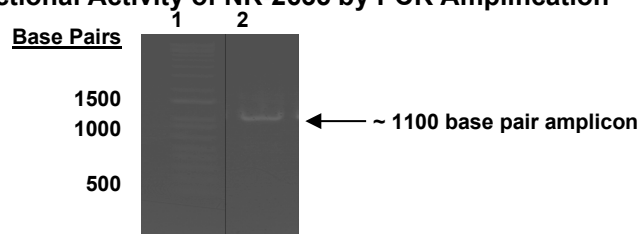
TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 1000 nucleotides)	≥ 98% identity with vaccinia virus, Lister (Elstree) (GenBank: AY678276)	99.7% identity with vaccinia virus, Lister (Elstree) (GenBank: AY678276)
Functional Activity by PCR Amplification¹	~ 1100 base pair amplicon	~ 1100 base pair amplicon (Figure 1)
Estimated Concentration by PicoGreen® Measurement (Viral, Cellular and Carrier)²	Report results	0.75 ng per 100 µL
Estimated Amount per Vial²	Report Results	0.75 ng
Genome Copy Number Using qPCR (Post vial)	Report results	2.22 × 10 ⁶ genome copies per mL
Virus Inactivation 10% of total yield inoculated on Vero 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)

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-2635 by PCR Amplification



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

Lane 2: PCR product from NR-2635

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13 SEP 2022

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