

Genomic DNA from Vaccinia Virus, IHD

Catalog No. NR-2636

Product Description:

Genomic DNA was isolated from *Macaca mulatta* kidney epithelial cells (LLC-MK2 derivative; ATCC® CCL-27.1™) infected with vaccinia virus, IHD (BEI Resources lot 3579603) using QIAamp® Viral RNA Mini Kit (Qiagen® 52904).

Lot: 63421352

Manufacturing Date: 13APR2015

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 980 nucleotides)	≥ 98% identity with vaccinia virus, IHD-W (GenBank: KJ125439)	99% identity with vaccinia virus, IHD- W (GenBank: KJ125439)
Functional Activity by RT-PCR Amplification¹	~ 1100 base pair amplicon	~ 1100 base pair amplicon (Figure 1)
Estimated Concentration by PicoGreen® Measurement (Viral and Cellular)²	Report results	7.2 ng per 100 µL
Estimated Amount per Vial²	Report results	7.2 ng
Genome Copy Number Using qPCR³ (Post-vial)	Report results	1.03 × 10 ⁷ genome copies per mL
Virus Inactivation 10% of total yield inoculated on LLC-MK2 cells and evaluated for cytopathic effect ⁴	No viable virus detected	No viable virus detected

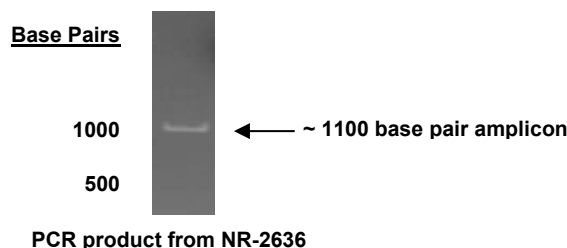
¹Amplified using iTaq™ DNA Polymerase (BioRad 170-8870) with 5 µL of NR-2636 in a 50 µL reaction

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

³Testing performed June 2022; other QC testing performed 2015

⁴Use 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-2636 by RT-PCR Amplification



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