

Genomic DNA from Camelpox Virus, V78-I-2379

Catalog No. NR-50076

Product Description:

Genomic DNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with Camelpox virus (CMLV), V78-I-2379 (BEI Resources lot 64108450) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906).

Lot: 70056343

Manufacturing Date: 30SEP2022

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of species-specific region (~ 980 nucleotides)	≥ 98% identity with CMLV	99.6% identity with CMLV ¹
Functional Activity by PCR Amplification²	~ 1000 base pair amplicon	~ 1000 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)³	Report results	3.7 ng per 100 µL
Estimated Amount per Vial³	Report results	3.7 ng
Genome Copy Number Using BioRad QX200 Droplet Digital PCR (ddPCR™) System (Post vial; 9 replicates)	Report results	1.46 × 10 ⁷ genome copies per mL
Virus Inactivation 10% of total yield inoculated on BSC-40 cells and evaluated for cytopathic effect and by PCR after serial passage ⁴	No viable virus detected	No viable virus detected

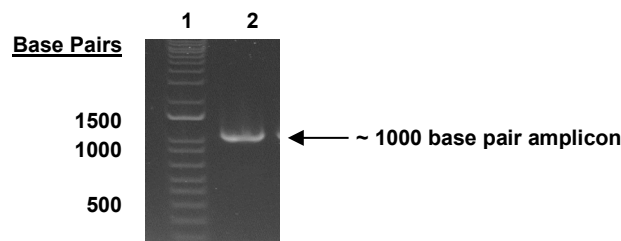
¹Sequence information for CMLV, V78-I-2379 is not available in the NCBI database; nucleotide sequence obtained for NR-50076 lot 70056343 is ~ 99% identical to CMLV 0408151v (GenBank: KP768318), CMLV M-96 (GenBank: AF438165) and CMLV CMS (GenBank: AY009089).

²Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-50076 in a 50 µL reaction

³Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

⁴Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of CMLV as shown by the absence of cytopathic effect (CPE) and viral DNA expression by PCR after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-50076 by PCR Amplification



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

Lane 2: PCR product from 1 µL of NR-50076

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Technical Manager or designee, ATCC Federal Solutions

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