

# Genomic DNA from Monkeypox Virus, USA-2003

Catalog No. NR-4928

**Product Description:** Genomic DNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells<sup>1</sup> infected with monkeypox virus (MPXV), USA-2003.

Lot<sup>2</sup>: 63310224

Manufacturing Date: 08OCT2015

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of Species-Specific Region (854 nucleotides)</b>	Consistent with MPXV, USA-2003  Consistent with NR-2500	100% identity with MPXV, USA-2003 (GenBank: DQ011153; DQ011157)  Consistent with NR-2500
<b>Functional Activity by RT-PCR Amplification<sup>3</sup></b>	~ 1100 bp amplicon	~ 1100 bp amplicon (Figure 1)
<b>Total DNA Content by PicoGreen<sup>®</sup> Measurement (Viral and Cellular)</b>	Report results	0.7 ng per 100 µL
<b>Virus Inactivation</b> 10% of total yield inoculated on MA-104 Clone 1 cells <sup>1</sup> and evaluated for cytopathic effect <sup>4,5</sup>	No viable virus detected	No viable virus detected

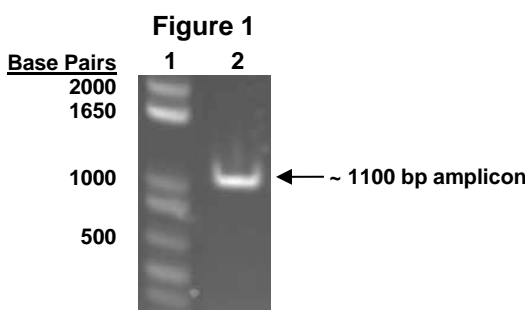
<sup>1</sup>MA-104 Clone 1 cells; ATCC<sup>®</sup> CRL-2378.1<sup>™</sup>

<sup>2</sup>Nucleic acid was extracted from a preparation of MPXV, USA-2003 (BEI Resources NR-2500, Lot 57935484) using a QIAamp<sup>®</sup> Viral RNA Mini Kit (Qiagen 52906).

<sup>3</sup>Amplified using iTaq<sup>™</sup> DNA Polymerase (Bio-Rad 170-8870) with 5 µL of NR-4928 in a 50 µL reaction

<sup>4</sup>The extracted nucleic acid preparation was plated on MA-104 Clone 1 cells and incubated for 7 days at 37°C and 5% CO<sub>2</sub>; cell lysate and supernatant from these cultures was blind passaged on fresh monolayers of MA-104 Clone 1 cells and again incubated for 7 days at 37°C and 5% CO<sub>2</sub>.

<sup>5</sup>Use of the QIAamp<sup>®</sup> Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of orthopox viruses.



Lane 1: Invitrogen<sup>™</sup> TrackIt<sup>™</sup> 1 Kb Plus DNA Ladder  
Lane 2: NR-4928

Date: 09 MAR 2017

Signature:

*Michael R. G. G. G.*

BEI Resources Authentication

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