

# Certificate of Analysis for NR-2641

## Genomic DNA from Cowpox Virus, Brighton Red

Catalog No. NR-2641

**Product Description:** Genomic DNA was extracted from a preparation of cell lysate and supernatant from African green monkey kidney (BS-C-1) cells<sup>1</sup> infected with cowpox virus, Brighton Red.

Lot<sup>2</sup>: 70009067

Manufacturing Date: 17NOV2017

TEST	SPECIFICATIONS	RESULTS
<b>Sequencing of Cowpox Virus Specific Region</b> B9R gene (775 nucleotides)	Consistent with cowpox virus, Brighton Red	100% identity with cowpox virus, Brighton Red (GenBank: AF482758)
<b>Functional Activity by RT-PCR Amplification<sup>3</sup></b> B9R gene	~ 1005 base pair amplicon	~ 1005 base pair amplicon (Figure 1)
<b>Total RNA Content by PicoGreen<sup>®</sup> Measurement (Viral, Cellular and Carrier)</b>	Report results	4 ng per 100 µL
<b>Virus Inactivation</b> 10% of total yield incubated on BS-C-1 cells <sup>1</sup> and evaluated by cytopathic effect <sup>4</sup>	No viable virus detected	No viable virus detected

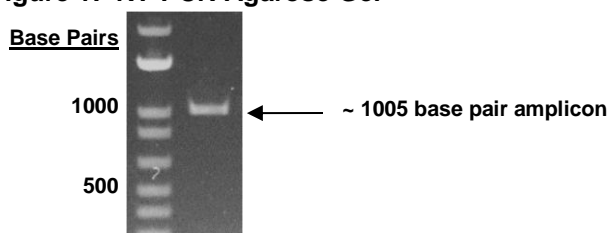
<sup>1</sup>BS-C-1 cells: ATCC<sup>®</sup> CCL-26<sup>™</sup>.

<sup>2</sup>Nucleic acid was extracted from a preparation of cowpox virus, Brighton Red (BEI Resources NR-88 lot 3694113) using a QIAamp<sup>®</sup> Viral RNA Mini Kit (Qiagen 52906).

<sup>3</sup>Amplified using iTaq<sup>™</sup> DNA Polymerase (BioRad 170-8870) with 5 µL of NR-2641 in a 50 µL reaction

<sup>4</sup>Use of the QIAamp<sup>®</sup> Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of orthopoxviruses as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells.

**Figure 1: RT-PCR Agarose Gel**



Lane 1: Invitrogen<sup>™</sup> TrackIt<sup>™</sup> 1 Kb Plus DNA Ladder

Lane 2: NR-2641, 0.5 µL in a 50 µL reaction

25 MAY 2018

Program Manager or designee, ATCC Federal Solutions

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

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