

**Genomic RNA from West Nile Virus, CO 1862**

**Catalog No. NR-50434**

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Chlorocebus* (formerly *Cercopithecus*) *aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with West Nile virus (WNV), CO 1862 (BEI Resources NR-49916 lot 63902493) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

**Lot: 70065877**

**Manufacturing Date: 01FEB2024**

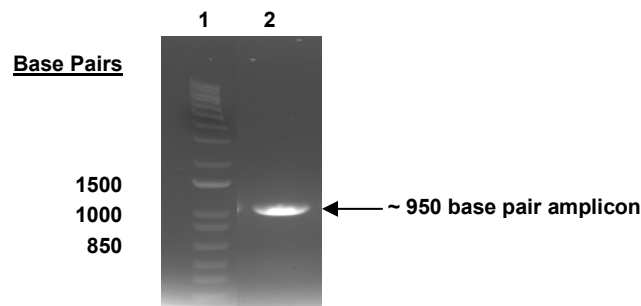
TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis</b> Sequencing of species-specific region (~ 870 nucleotides)	≥ 98% identity with WNV, CO 1862 (GenBank: MH170227.1)	100% identity with WNV, CO 1862 (GenBank: MH170227.1)
<b>Functional Activity by RT-PCR Amplification<sup>1</sup></b> Glycoprotein gene	~ 950 base pair amplicon	~ 950 base pair amplicon (Figure 1)
<b>Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)<sup>2</sup></b>	Report results	25.4 ng per 100 µL (0.25 µg/mL)
<b>Estimated Amount per Vial<sup>2</sup></b>	Report results	25.4 ng
<b>Virus Inactivation</b> 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect after serial passage <sup>3</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-50434 in a 50 µL reaction

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

<sup>3</sup>Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of WNV as shown by the absence of cytopathic effect (CPE) after plating the entire extract on virus-susceptible cells for two passages.

**Figure 1: Functional Activity of NR-50434 by RT-PCR Amplification of Glycoprotein Gene**



Lane 1: Invitrogen™ TrackIt™ 100bp DNA Ladder  
Lane 2: PCR product from 1 µL of NR-50434

/Sonia Bjorum Brower/  
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23 APR 2024

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