

## **Certificate of Analysis for NR-59879**

### Genomic RNA from West Nile Virus, R94224

### Catalog No. NR-59879

This reagent is the property of the US Government

### **Product Description:**

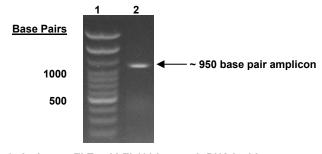
Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Chlorocebus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with West Nile virus (WNV), R94224. (BEI Resources NR-59933 lot 70071795) using QIAamp® Viral RNA Mini Kit (Qiagen® 52906). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70070075 Manufacturing Date: 17SEP2024

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of a species-specific region (~ 870 nucleotides)	≥ 98% identity with WNV from USA (GenBank: AY646354)	99.5% identity with WNV from USA (GenBank: AY646354) <sup>1</sup>
Functional Activity by RT-PCR Amplification <sup>2</sup> Polyprotein gene	~ 950 base pair amplicon	~ 950 base pair amplicon (Figure 1)
Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)³	Report results	6.3 ng per 100 μL (0.063 μg/mL)
Estimated Amount per Vial <sup>3</sup>	Report results	6.3 ng
Virus Inactivation 10% of total yield inoculated on Vero cells and evaluated for cytopathic effect after serial passage <sup>4</sup>	No viable virus detected	No viable virus detected

<sup>&</sup>lt;sup>1</sup>Sequence information for WNV, R94224 is not available in the NCBI database; the nucleotide sequence obtained for NR-59879 lot 70070075 is highly similar to numerous WNV strains.

Figure 1: Functional Activity of NR-59879 by RT-PCR Amplification of Polyprotein Gene



Lane 1: Invitrogen™ TrackIt™ 100 base pair DNA Ladder Lane 2: PCR product from 1 µL of NR-59879

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²Amplified using iTag™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 µL of NR-59879 in a 50 µL reaction

<sup>&</sup>lt;sup>3</sup>Measurement is determined pre-vial prior to dilution due to the limit of detection of the quantification method

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



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ATCC®, 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®'s knowledge.

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