

Plasmid Containing West Nile Virus, MAD78 Infectious Clone, pWNV-MAD-IC

Catalog No. NR-49446

Product Description:

The complete genome of West Nile virus (WNV) MAD78 (DakAnMg798) with a T7 promoter immediately upstream of the 5' end was cloned into the pWSK29 vector. NR-49446 was extracted from a preparation of BEI Resources seed lot 63538169, was transformed into One Shot™ TOP10 *E. coli* (Invitrogen™ C404003), grown in Luria-Bertani broth with ampicillin (50 µg/mL) for 1 day at 30°C in an aerobic atmosphere, and extracted using a Plasmid Plus Maxi Kit (QIAGEN® 12963) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70071797

Manufacturing Date: 08OCT2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 16,300 base pairs	16,292 base pairs ¹
Genotypic Analysis Sequencing of MAD78 genome insert (~ 10,860 base pairs)	≥ 99% sequence identity to WNV, strain DakAnMg798 (GenBank: DQ176636.2)	99.9% sequence identity to WNV, strain DakAnMg798 (GenBank: DQ176636.2) ²
Antibiotic Resistance Ampicillin (encoded by beta-lactamase gene <i>bla</i>)	<i>bla</i> sequence present	<i>bla</i> sequence present
Concentration by Qubit Fluorometer®	Report results	1.18 µg in 100 µL/vial (11.8 µg/mL)
Amount per Vial	Report results	1.18 µg/vial
OD₂₆₀/OD₂₈₀ Ratio (pre-vial)	1.7 to 2.1	2.0
Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>Escherichia coli</i>	≥ 50 colonies/ng	1544 colonies/ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence is provided on the BEI Resources webpage.

²Comparison to the GenBank sequence indicates multiple SNPs in the sequence. However, these SNPs do not change the amino acid sequence of the viral protein.

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