

Human Immunodeficiency Virus Type 1 (HIV-1) Non-Infectious Molecular Clone, pNL4-3ΔEnv

Catalog No. HRP-20281

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Product Description:

HRP-20281 is an Env deficient non-infectious molecular clone derived from infectious molecular clone pNL4-3 (GenBank: [AF324493](#)). The deposited plasmid DNA was transformed into MAX Efficiency™ Stbl2™ *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with ampicillin (50 µg/mL) for 20 hours at 30°C in an aerobic atmosphere, 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: 70061156

Manufacturing Date: 27JUN2023

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 13560	13,561 base pairs ^{1,2}
Genotypic Analysis Confirmation of Env deletion in pNL4-3	Nucleotide 6345-7611 deleted	Nucleotide 6345-7611 deleted
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	1.5 µg in 100 µL/vial (15 µg/mL)
Amount per Vial	Report results	1.5 µg/vial
OD₂₆₀/OD₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	67 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 depositor's sequence indicates multiple SNPs in the sequence. However, these SNPs do not change the amino acid sequence of viral proteins.

/Kenneth R. Crawford/

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17 MAY 2024

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