

Human Immunodeficiency Virus Type 1 (HIV-1) NL4-3 AD8 Infectious Molecular Clone, pNL(AD8)

Catalog No. HRP-11346

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Product Description:

HRP-11346 is a full-length replication-competent, infectious human immunodeficiency virus type 1 (HIV-1), subtype B, NL4-3 AD8 chimeric molecular clone. The ampicillin resistance gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The deposited plasmid DNA was transformed into MAX Efficiency™ Stbl2™ *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 16 to 20 hours at 37°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: 70068203

Manufacturing Date: 02MAY2024

TEST	SPECIFICATIONS	RESULTS
Next Generation DNA Sequencing	~ 14,830 base pairs	14828 base pairs ¹
Genotypic Analysis Sequencing of AD8 <i>env</i> insert (~ 1700 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: AF004394.1)	100% sequence identity to depositor's sequence (GenBank: AF004394.1)
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	1.91 µg in 100 µL/vial (19.1 µg/mL)
Amount per Vial	Report results	1.91 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>	Report results	538 colonies/ng

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

/Kenneth R. Crawford/
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16 AUG 2024

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