

Human Immunodeficiency Virus Type 1 (HIV-1) NL4-3 BaL Infectious Molecular Clone (p81A-4)

Catalog No. HRP-11440

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Product Description:

HRP-11440 is a full-length human immunodeficiency virus type 1 (HIV-1) infectious molecular clone containing the V1-V3 envelope regions of Strain Ba-L in a NL4-3 background. The deposited plasmid DNA was transformed into MAX Efficiency™ Stbl2™ *Escherichia coli* (*E. coli*) (Invitrogen™ 10268019) grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 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: 70080024

Manufacturing Date: 04DEC2025

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 13,670 base pairs	13,673 base pairs ¹
Genotypic Analysis Sequencing of p81A-4 (13,673 base pairs)	≥ 99% sequence identity to depositor's sequence	99.9% sequence identity to depositor's sequence 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	1.8 µg in 100 µL/vial (17.8 µg/mL)
Amount per Vial	Report results	1.8 µg/vial
OD ₂₆₀ /OD ₂₈₀ Ratio	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	56 colonies/ng

¹De novo assembly of the NGS sequence was performed pre-vial. The complete plasmid sequence is provided on the BEI Resources webpage.

²Comparison to the depositor's sequence indicates two SNPs in the sequence. However, it did not change the amino acid sequence of the viral protein.

/Kenneth R. Crawford/

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24 APR 2026

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