

Human Immunodeficiency Virus 1 (HIV-1) Env Expression Vector (NI1149.ec1)

Catalog No. HRP-13505

Product Description:

HRP-13505 is an expression vector that produces human immunodeficiency virus 1 (HIV-1) subtype CRF01_AE NI1149.ec1 Env protein. The vector carries an ampicillin resistance marker for transformant selection. The deposited plasmid was transformed into Invitrogen™ MAX Efficiency™ Stbl2™ *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 17 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: 70062080

Manufacturing Date: 10OCT2023

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 8463 base pairs	8463 base pairs ¹
Genotypic Analysis Sequencing of NI1149.ec1 Env gene insert (~ 2390 base pairs)	≥ 99% sequence identity to HIV-1 isolate NI1149.EC1 <i>env</i> (GenBank: MK501594.1)	100% sequence identity to HIV-1 isolate NI1149.EC1 <i>env</i> (GenBank: MK501594.1)
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	3.2 µg in 100 µL/vial (32 µg/mL)
Amount per Vial	Report results	3.2 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	457 colonies/ng

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

/ Ken Crawford /
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