



Certificate of Analysis for HRP-20250

pNL-NLucΔEnv D64V (IN-) Vector

Catalog No. HRP-20250

Product Description:

HRP-20250 is an HIV-1 indicator viral expression vector, encoding HIV-1 nano luciferase reporter virus (NL-NLuc) lacking 943 bp segment of *env* (envelope) gene, which renders it replication incompetent, and an inactivating D64V mutation in the integrase (IN-). The vector carries an ampicillin resistance marker for transformant selection. The deposited plasmid was transformed into One Shot™ TOP10 *E. coli* (Invitrogen™ C404003), grown in Luria-Bertani broth with ampicillin (50 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: 70059386

Manufacturing Date: 24MAR2023

TEST	SPECIFICATIONS	RESULTS
Next Generation DNA Sequencing	~ 15,000 base pairs	14,318 base pairs ¹
Insertion of NLuc	<i>nluc</i> sequence present	<i>nluc</i> sequence present
Integrase D64V mutation	Mutation present	Mutation present
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	2.3 µg in 100 µL per vial (0.002 mg/mL)
Amount per Vial	Report results	2.3 µg per vial
OD ₂₆₀ /OD ₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>E. coli</i>	Report results	240 colonies/ng

¹De novo assembly of the NGS sequence was carried out pre-vial. The complete plasmid sequence and map are provided on the NIH HIV Reagent Program webpage.

/Ken Crawford/

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01 DEC 2023

Lead Technical Writer, ATCC Federal Solutions

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