

Certificate of Analysis for HRP-11744

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pRHPA.c/2635

Catalog No. HRP-11744

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Product Description:

HRP-11744 is a full-length transmitted/founder (T/F) human immunodeficiency virus type 1 (HIV-1) subtype B infectious molecular clone (IMC). The plasmid encodes full-length, replication-competent virus in a pCR-XL-TOPO vector backbone. The pRHPA.c/2635 insert (GenBank: [JN944944](#)) is 9705 base pairs and the resulting size of the plasmid is approximately 13,810 base pairs. The deposited plasmid DNA was transformed into MAX Efficiency™ Stbl2™ *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with kanamycin (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: 70067137

Manufacturing Date: 28MAR2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 13,240 base pairs	13,239 base pairs ¹
Genotypic Analysis Sequencing of pRHPA.c/2635 insert (9705 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: JN944944.1)	100% sequence identity to depositor's sequence (GenBank: JN944944.1)
Antibiotic Resistance Kanamycin (encoded by <i>aph</i> gene)	<i>aph</i> sequence present	<i>aph</i> sequence present
Concentration by Qubit Fluorometer®	Report results	1.7 µg in 100 µL/vial (17 µg/mL)
Amount per Vial	Report results	1.7 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	650 colonies/ng

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

/Kenneth R. Crawford/

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15 JUL 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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