

Certificate of Analysis for HRP-13548

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pCH078a

Catalog No. HRP-13548

Product Description:

HRP-13548 is a full-length transmitted/founder (T/F) replication-competent, infectious HIV-1 subtype C CH078a molecular clone on a pUC57 vector backbone. 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 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: 70067082

Manufacturing Date: 30APR2024

| TEST | SPECIFICATIONS | RESULTS |
|---|--|---|
| Next-Generation DNA Sequencing | ~12,400 base pairs | 12,350 base pairs ¹ |
| Genotypic Analysis Sequencing of pCH078a (12,350 base pairs) | ≥ 99% sequence identity to depositor's sequence | 100% sequence identity to depositor's sequence |
| Antibiotic Resistance Ampicillin (encoded by <i>bla</i> gene) | <i>bla</i> sequence present | <i>bla</i> sequence present |
| Concentration by Qubit Fluorometer® | Report results | 1.35 µg in 100 µL/vial (13.5 µg/mL) |
| Amount per Vial | Report results | 1.35 µg/vial |
| OD ₂₆₀ /OD ₂₈₀ Ratio (pre-vial) | 1.7 to 2.1 | 1.9 |
| Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i> | ≥ 50 colonies/ng | 411 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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29 OCT 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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