

**Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pAD17**

**Catalog No. HRP-12423**

**Product Description:**

**Note:** The item name on the vial label should be HIV-1 pAD17 Infectious Molecular Clone.

HRP-12423 is a full-length molecular clone of replication-competent human immunodeficiency virus type 1 (HIV-1) subtype B provirus generated from single genome amplification-derived consensus sequence of transmitted/founder virus. Insert was cloned at *MluI/NotI* restriction sites in pCR-XL-TOPO vector. 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: 70066966**

**Manufacturing Date: 27JUN2024**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	~ 13,096 base pairs	13,096 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequencing of pAD17 (13,096 base pairs)	≥ 99% sequence identity to depositor's sequence	100% sequence identity to depositor's sequence
<b>Antibiotic Resistance</b> Kanamycin (encoded by <i>aph</i> gene)	<i>aph</i> sequence present	<i>aph</i> sequence present
<b>Concentration by Qubit Fluorometer®</b>	Report results	1.28 µg in 100 µL/vial (12.8 µg/mL)
<b>Amount per Vial</b>	Report results	1.28 µg/vial
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio (pre-vial)</b>	1.7 to 2.1	1.9
<b>Effective Bacterial Transformation</b> Invitrogen™ MAX Efficiency™ <i>Stbl2</i> ™ <i>E. coli</i>	≥ 50 colonies/ng	520 colonies/ng

<sup>1</sup>The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence and map are provided on the BEI Resources webpage.

/Kenneth R. Crawford/  
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08 OCT 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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