b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for HRP-20371

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, 175005/pGEM-5Zf(+)

Catalog No. HRP-20371

Product Description:

HRP-20371 is a transmitted/founder (T/F) human immunodeficiency virus type 1 (HIV-1) subtype A1 infectious molecular clone. The plasmid encodes full-length, replication-competent virus in a pGEM-5Zf(+) vector backbone. The deposited plasmid DNA was transformed into JM109 *E. coli* (Promega™ L2005), grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 20 hours at 37°C in an aerobic atmosphere, extracted using a QIAprep Spin Miniprep Kit (QIAGEN® 27104) and vialed in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70077846 **Manufacturing Date: 21OCT2025**

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of the insert (~ 9120 base pairs)	≥ 99% sequence identity to HIV-1 isolate 175005_6_TF from Rwanda (GenBank: MT942708.1)	100% sequence identity to HIV-1 isolate 175005_6_TF from Rwanda (GenBank: MT942708.1)
Antibiotic Resistance Ampicillin (encoded by beta-lactamase gene *bla*)	*bla* sequence present	*bla* sequence present
Concentration by Qubit Fluorometer®	Report results	0.7 µg in 50 µL/vial (14 µg/mL)
Amount per Vial	Report results	0.7 µg/vial
OD_{260}/OD_{280} Ratio	1.7 to 2.1	1.8
Effective Bacterial Transformation Promega™ JM109 *E. coli*	≥ 50 colonies/ng	55 colonies/ng

/Kenneth R. Crawford/
Kenneth R. Crawford 28 MAY 2026
Lead Technical Writer or designee, ATCC Federal Solutions

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HIV REAGENT PROGRAM Support Provided by NIAID

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