



Certificate of Analysis for HRP-20098

Simian Immunodeficiency Virus Infectious Molecular Clone pSIVsm804E-CL757

Catalog No. HRP-20098

This reagent is the tangible property of the U.S. Government.

Product Description:

HRP-20098 is a full-length, neurovirulent, infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsm804E-CL757. SIVsm804E-CL757 is a chimeric, infectious viral clone of the isolate SIVsm804E and is available through NIH HIV Reagent Program (HRP-20125). The plasmid encodes full-length, replication-competent virus in a pUC19 vector backbone. The ampicillin resistance gene, *aph*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The SIVsm804E-CL757 insert is approximately 10,310 base pairs and the resulting size of the plasmid is approximately 13,000 base pairs. The purified plasmid DNA was provided vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA).

Lot: 70051541

Receipt Date: 30SEP2021

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 10,310 base pairs	10,305 base pairs ¹
Genotypic Analysis Sequencing of pSIVsm804E CL757 insert (~ 10,310 base pairs)	≥ 99% sequence identity to depositor's sequence	100% sequence identity to depositor's sequence
Concentration by Qubit® Measurement	≥ 2 µg/mL	1.37 µg in 100 µL/vial (14 µg/mL)
Amount per Vial	Report results	1.37 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 per ng	480 colonies per ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence ([MF370842.1](#)) as the reference sequence. The insert sequence is provided on the NIH HIV Reagent Program webpage.

/Ken Crawford/
Ken Crawford

07 MAY 2023

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