



Certificate of Analysis for HRP-20095

Simian Immunodeficiency Virus Infectious Molecular Clone pSIVsmE660-FL14

Catalog No. HRP-20095

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

Product Description:

HRP-20095 is a full-length, infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsmE660-FL14 which is available through NIH HIV Reagent Program (HRP-20120). The plasmid encodes full-length, replication-competent virus in a pUC19 vector backbone. The pSIVsmE660-FL14 insert is approximately 10,300 base pairs and the resulting size of the plasmid is approximately 14,000 base pairs. The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The deposited plasmid was transformed into MAX Efficiency™ Stbl2™ Competent *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with ampicillin (50 µg/mL) for 1 day at 37°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: 70056952

Manufacturing Date: 04NOV2022

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 10,300 base pairs	10,287 base pairs ¹
Genotypic Analysis Sequencing of pSIVsmE660--FL14 insert (~ 10,300 base pairs)	≥ 99% sequence identity to depositor's sequence	99.9% sequence identity to depositor's sequence
Concentration by Qubit® Measurement	≥ 2 µg/mL	1.47 µg in 100 µL per vial (14.7 µg/mL)
Amount per Vial	Report results	1.47 µg per vial
OD₂₆₀/OD₂₈₀ Ratio (pre vial)	1.7 to 2.1	2.0
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	Report results	269 colonies/ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence (GenBank: [JQ864087.1](#)) as the reference sequence. The insert sequence is provided on the NIH HIV Reagent Program webpage.

/Ken Crawford/
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14 NOV 2023

ATCC®, on behalf of the NIH HIV Reagent Program, hereby represents and warrants that the material provided under this certificate has been subjected, by ATCC® and the contributor, to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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NIH HIV Reagent Program

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