



Certificate of Analysis for HRP-20097

Simian Immunodeficiency Virus Infectious Molecular Clone pSIVsmE660-807-24w Env

Catalog No. HRP-20097

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

Product Description:

HRP-20097 is a full-length infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsmE660-807-24w Env, which is available through NIH HIV Reagent Program (HRP-20122). The plasmid encodes full-length, replication-competent virus in a pUC19 vector backbone. The ampicillin resistance gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The pSIVsmE660-807-24w Env insert is approximately 10,300 base pairs and the resulting size of the plasmid is approximately 13,000 base pairs. The purified plasmid DNA is provided in TE buffer (10 mM Tris-HCl, 1 mM EDTA).

Lot: 70053004

Receipt Date: 30SEP2021

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 10,300 base pairs	10,284 base pairs ¹
Genotypic Analysis Sequencing of pSIVsmE660-807-24w Env 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	0.7 µg in 100 µL per vial (7.0 µg/mL)
Amount per Vial	Report results	0.7 µg per vial
OD₂₆₀/OD₂₈₀ Ratio (pre vial)	1.7 to 2.1	1.6 ²
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	Report results	1 colony/ng ³

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.

²The OD₂₆₀/OD₂₈₀ ratio was below specification; however, we have not seen a loss of functionality with this material.

³Some plasmids and molecular clones have shown very low bacterial transformation, however, we have not seen a loss of functionality with this material.

/Ken Crawford/
Ken Crawford

Lead Technical Writer, ATCC Federal Solutions

19 JUL 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.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

Support
Provided
by NIAID

NIH HIV Reagent Program

www.hivreagentprogram.org

E-mail: contact@HIVReagentProgram.org

Tel: 888-487-0727 | Fax: 703-365-2898

© 2023 American Type Culture Collection (ATCC)

All rights reserved.

HRP-20097_70053004_19JUL2023

Page 1 of 1