



Certificate of Analysis for HRP-20041

TZM-GFP Human Cell Line (JC.53 derived)

Catalog No. HRP-20041

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

Product Description:

HRP-20041 is a novel human immunodeficiency virus type 1 (HIV-1) reporter cell line derived from the same parental clone JC.53, used previously to generate the widely-utilized indicator cell line TZM-bl. JC.53 cells are HeLa [human (*Homo sapiens*) cervical adenocarcinoma] cell derivatives overexpressing the three major HIV-1 co-receptors: CD4, CCR5 and CXCR4. JC.53 cells were engineered to express green fluorescent protein (GFP) under regulation of HIV Tat and Rev. To produce TZM-GFP cells, parental JC.53 cells were transduced with a non-self-inactivating lentiviral reporter vector, pNL-GFP-RRE (SA), which harbors the HIV-1 long terminal repeat (LTR) and HIV-1 major donor and acceptor splice sites flanking the reporter gene hrGFP (human-optimized Renilla GFP), and cloned by limiting dilution. HRP-20041 lot 70052544 is preserved in 80% Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™), 10% fetal bovine serum (ATCC® 30-2020™) and 10% dimethyl sulfoxide (DMSO) (ATCC® 4-X™).

Lot: 70052544

Manufacturing Date: 05MAY2023

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Report results	Epithelial-like
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	<i>Homo sapiens</i> origin	<i>Homo sapiens</i> origin
Total Cell Count	> 1.0 × 10 ⁶ cells/vial	5.9 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	97%
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic ¹	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Hoechst DNA stain	None detected	None detected
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

¹Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Ken Crawford/

Ken Crawford

Lead Technical Writer, ATCC Federal Solutions

01 DEC 2023

ATCC®, on behalf of the NIH HIV Reagent Program, hereby represents and warrants that the material provided under this certificate has been subjected 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.



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-20041_70052544_01DEC2023

Page 1 of 1