



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 70047347 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: 70047347

Manufacturing Date: 28SEP2021

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Report results	Fibroblastic
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 per vial	7.6 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	92.2%
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.

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