



Certificate of Analysis for HRP-20042

Sup-GGR (*Gaussia* GFP Reporter) Human Cell Line

Catalog No. HRP-20042

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

Product Description:

HRP-20042 is a novel dual-indicator (fluorescent/enzymatic reporter) cell line which offers two different readouts to quantify human immunodeficiency virus type 1 (HIV-1) infection. The parental SupT1-CCR5 cell line harbors a pLenti6-CCR5 expression construct. A construct expressing both *Gaussia* luciferase and hrGFP (humanized Renilla GFP) in a Tat- and Rev-dependent manner was engineered into SupT1-CCR5 to create Sup-GGR cells. To produce Sup-GGR cells, parental SupT1-CCR5 cells were transduced with a lentiviral reporter vector, pNL-GGR-RRE (SA), and cloned by limiting dilution. The Sup-GGR cell line supports the replication of both X4 and R5-tropic HIV as efficiently as its parental cell line, SupT1-CCR5, and allows repeated sampling without the need to terminate the culture. HRP-20042 lot 70046136 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: 70046136

Manufacturing Date: 02AUG2021

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Non-adherent	Non-adherent
Morphology	Lymphoblast-like	Lymphoblast-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 per vial	4.3 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	60%
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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