

TZM-bl Cells

Catalog No. HRP-8129

Product Description:

HRP-8129 is a HeLa cell line. It was previously designated JC53-bl (clone 13), and the parent cell line (JC.53) stably expresses large amounts of CD4 and CCR5. The TZM-bl cell line was generated from JC.53 cells by introducing separate integrated copies of the luciferase and β -galactosidase genes under control of the human immunodeficiency virus type 1 (HIV-1) promoter. The TZM-bl indicator cell line uses either luciferase or β -galactosidase as a reporter. Antibiotic selection is not necessary to maintain stable expression of the receptors and reporter genes. It is maximally sensitive to HIV infection by including DEAD-dextran in the infection medium. HRP-8129 lot 70069692 was produced by culture with Dulbecco's Modified Eagle's Medium supplemented with 10% fetal bovine serum. Note: This cell line is contaminated with ecotropic murine leukemia virus (MLV).

Lot: 70069692

Manufacturing Date: 11JUL2024

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Total Cell Count	> 1.0×10^6 cells/vial	6.97×10^6 cells/vial
Post-Freeze Viability	$\geq 50\%$	88.8%
pNL4-3-ADA-IRES-VSVG Infected Cells Express GFP Detected by Luciferase Assay	GFP expression present at 24 hours post-infection	GFP expression present at 24 hours post-infection
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ¹ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected None detected	None detected 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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