

Human Immunodeficiency Virus 1 (HIV-1) NL4-3-Bal-IRES HSA-Infected CEM.NKR-CCR5 (siCEM) Cells

Catalog No. HRP-20287

Product Description:

HRP-20287 is a preparation of siCEM cells generated by infecting CEM.NKR-CCR5 cells with NL4-3-Bal-IRES-HSA reporter virus and sorting for heat-stable antigen (HSA)-positive cells by flow cytometry. The NL4-3-Bal-IRES-HSA reporter virus used for infection of siCEM cells is an NL4.3-based HIV-1 virus expressing all viral genes from the original NL4.3 backbone except the *env* gene, which was replaced by an HIV Bal *env* gene and a reporter gene encoding HSA (murine CD24) co-expressed with Nef using an internal ribosome entry site (IRES) sequence. HRP-20287 lot 70072402 is preserved in RPMI 1640 supplemented with 40% fetal bovine serum and 10% dimethyl sulfoxide (DMSO).

Lot: 70072402

Manufacturing Date: 15DEC2025

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology	Round	Round
Growth Properties	Suspension	Suspension
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Human origin No evidence of another species	Human origin No evidence of another species
Short Tandem Repeat (STR) Profiling	Human origin % match to database or reference profile	Human origin 42% match to CEM/C2 (ATCC® CRL-2264™)
Total Cell Count	Report results	3.5 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 80%	84.0%
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 and 5% CO ₂	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 Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic	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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