

CEM.NKR CCR5+ Cells

Catalog No. HRP-4376

Product Description:

HRP-4376 cells are CEM cells that are resistant to natural killer (NK) cell-mediated cell lysis. They may also be referred to as CEM.NKR-CCR5. These cells were transduced with a retroviral vector to express human CCR5. HRP-4376 lot 70075685 was produced by culture with RPMI-1640 supplemented with 2 mM L-glutamine and 10% fetal bovine serum. Cultures should be split 1:10 twice weekly.

Lot: 70075685

Manufacturing Date: 22APR2025

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 57% match to CEM/C1 cells (ATCC® CRL-2265™) ¹
Total Cell Count	> 1.0 × 10 ⁶ cells/vial	4.4 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	89.7%
CD5 Expression (Immunofluorescent Antibody)²	Fluorescence observed	Fluorescence observed
Sterility test (Bact/ALERT 3D) iAST bottle (aerobic) at 32.5°C, 14-day incubation iNST bottle (anaerobic) at 32.5°C, 14-day incubation	No growth No growth	No growth No growth
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 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

¹The CEM cell line was subjected to immunoselection by co-culture with peripheral blood mononuclear cells (PBMC) for resistance to NK cell-mediated lysis, which could lead to changes in the STR profile between the CEM cell line and the selected cells. The STR profiling results are comparable to prior lots of HRP-4376, using CCRF-CEM cells (ATCC® CCL-119™) as a reference profile.

²Stained with rabbit anti-CCR5 (Abcam AB11466)

/Kenneth R. Crawford/

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