

RevCEM-G2 Cells

Catalog No. HRP-13436

Product Description:

HRP-13436 is a highly sensitive indicator lymphoblast cell line for human immunodeficiency virus (HIV) infection. It expresses Rev-dependent green fluorescent protein (GFP) and constitutive mCherry. HRP-13436 lot 70049006 was produced by culture with RPMI-1640 supplemented with non-essential amino acids, sodium pyruvate, 50 mg/mL gentamicin, 1X Penicillin/Streptomycin and 10% fetal bovine serum.

Lot: 70049006

Manufacturing Date: 27NOV2021

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Suspension	Suspension
Total Cell Count	> 1.0 × 10 ⁶ cells/vial	> 1.0 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	> 80%
CXCR4 Expression	Positive	Positive ¹
CCR5 Expression	Negative	Negative ²
GFP and mCherry Expression³ HRP-13436 incubated with HIV-1 HRP-13436 only	Positive Negative	Positive Negative
Sterility (21-day incubation) Blood agar, 37°C, aerobic Potato agar, 37°C, aerobic LB broth, 37°C, aerobic	No growth No growth No growth	No growth No growth No growth
Mycoplasma Contamination DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

¹Blocked with ChromePure Whole Mouse IgG (Jackson ImmunoResearch Catalog No. 015-000-003) and stained with anti-hCXCR4-PE mouse IgG2b (R&D Biosciences Catalog No. FAB173P). Expression was measured by flow cytometry.

²Blocked with ChromePure Whole Mouse IgG (Jackson ImmunoResearch Catalog No. 015-000-003) and stained with anti-hCCR5-FITC mouse IgG2ak (BD Biosciences Catalog No. 555992). Expression was measured by flow cytometry.

³HRP-13436 was incubated with NL4-3 (HIV-1) virus (BEI resources Catalog No. ARP-114) for 7 days and GFP and mCherry expression were measured by Fluorescence Activated Cell Sorting (FACS).

/Kenneth R. Crawford/

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