



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	CEM.NKR CCR5+Luc+ Cells
Catalog Number:	5198
Lot Number:	120145
Release Category:	A
Provided:	6.0 x 10 ⁶ cells/mL. Viability is 93%.
Cell Type:	CEM cells - human CD4+ lymphoblasts.
Propagation Medium:	RPMI 1640 containing 10% fetal bovine serum, 4 mM glutamine, penicillin/streptomycin and 0.8 mg/ml geneticin sulfate (G418).
Freeze Medium:	Propagation medium, 90%; DMSO, 10%.
Growth Characteristics:	Cells grow in suspension as single cells with small clumps. Split 1:10 twice weekly. The optimal concentration for the culture and use of these cells is 2 x 10 ⁴ cells per well (96-well plate). NOTE: (A typographical error was made in the Spenlehauer et al. Virology paper that stated the cells should be used at 2 x 10 ⁵ per well).
Morphology:	Round lymphoid cells, morphology not very variable.
Sterility:	Negative for mycoplasma, bacteria and fungi.
Description:	CEM.NKR CCR5+ Cells express the luciferase gene under the transcriptional control of the HIV-2 LTR.
Special Characteristics:	CEM.NKR CCR5+ Cells (cat #4376) are CCR5+ CEM cells that are resistant to NK cell-mediated cell lysis. These cells were stably transfected to express luciferase activity after transactivation of the HIV-2 LTR. Suitable for infection with primary HIV isolates. Alternate names: CEM.NKR-CCR5-Luc

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

Recommended Storage: Liquid nitrogen

Contributor: Drs. John Moore and Catherine Spenlehauer.

References: Spenlehauer C, Gordon CA, Trkola A, Moore JP. A luciferase-reporter gene-expressing T-cell line facilitates neutralization and drug-sensitivity assays that use either R5 or X4 strains of human immunodeficiency virus type 1. *Virology* **280**:292-300, 2001.

Trkola A, Matthews J, Gordon C, Ketas T, Moore JP. A cell line-based neutralization assay for primary human immunodeficiency virus type 1 isolates that use either the CCR5 or CXCR4 coreceptor. *J Virol* **73**:8966-8974, 1999.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, NIAID, NIH: CEM.NKR CCR5+Luc+ Cells from Drs. John Moore and Catherine Spenlehauer." Also include the references cited above in any publications.

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