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DATA SHEET

Reagent:	CEM.NKR CCR5+Luc+ Cells
Catalog Number:	5198
Lot Number:	160074
Release Category:	A
Provided:	9.71×10^6 cells/mL. Viability is 83.7%.
Cell Type:	CEM cells - human CD4+ lymphoblasts.
Propagation Medium:	RPMI 1640 (or DMEM), 90%; fetal bovine serum, 10%; 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 2×10^4 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 2×10^5 per well).
Morphology:	Round lymphoid cells, morphology not very variable.
Sterility:	Negative for mycoplasma, bacteria and fungi.
Description:	CEM.NKR CCR5+Luc+ cells express the luciferase gene under the transcriptional control of the HIV-2 LTR.
Special Characteristics:	$CEM.NK^R$ 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

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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