



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	CEM.NKR CCR5+Luc+ Cells
<b>Catalog Number:</b>	5198
<b>Lot Number:</b>	098108
<b>Release Category:</b>	A
<b>Provided:</b>	6 x 10 <sup>6</sup> cells/mL. Viability is 97%.
<b>Cell Type:</b>	CEM.NKR-CCR5 (Cat. #4376) were transfected (electroporation) to express the luciferase gene under the transcriptional control of the HIV-2 LTR.
<b>Propagation Medium:</b>	RPMI 1640 containing 10% fetal bovine serum, 4 mM glutamine, penicillin/streptomycin and 0.8mg/ml geneticin sulfate (G418).
<b>Freeze Medium:</b>	Propagation medium, 90%; DMSO, 10%.
<b>Growth Characteristics:</b>	Round lymphoid cells, morphology not very variable. 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 <sup>4</sup> cells per well (96-well plate). <b>NOTE:</b> (A typographical error was made in the Spenlehauer et al. Virology paper that stated the cells should be used at 2 x 10 <sup>5</sup> per well).
<b>Sterility:</b>	Negative for mycoplasma, bacteria and fungi.
<b>Description:</b>	CEM.NKR CCR5+ Cells express the luciferase gene under the transcriptional control of the HIV-2 LTR.
<b>Special Characteristics:</b>	Express luciferase activity after transactivation of the HIV-2 LTR. Suitable for infection with primary HIV isolates, for neutralization and drug-sensitivity assays.  Alternate names: CEM.NKR-CCR5-Luc

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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.

**Last Updated** July 03, 2018

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