



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	174xCEM Cells
<b>Catalog Number:</b>	272
<b>Lot Number:</b>	170176
<b>Release Category:</b>	D
<b>Provided:</b>	1 mL Post thaw cell count= $4.3 \times 10^6$ cells/mL Post cell viability= 73% Cell viability increased to 95% after 7 days.
<b>Cell Type:</b>	Fusion product of human B cell line 721.174 and human T cell line CEM
<b>Propagation Medium:</b>	Donor Provided Propagation Media: Iscove's Modified Dulbecco's Medium, 90%; fetal bovine serum, 10% or RPMI 1640, 90%; fetal bovine serum, 10% Current Propagation Media: RPMI, 90%; fetal bovine serum, 10%; Pen-Strept; NEAA
<b>Freeze Medium:</b>	Donor Provided Freeze Media: Propagation medium, 90%; DMSO, 10% Current Freeze Media: RPMI, 50%; fetal bovine serum, 40%; DMSO, 10%
<b>Growth Characteristics:</b>	Cells grow in clumps, are larger than CEM cells, and appear oblong. Passage the cells twice a week to maintain a concentration of $0.5-2 \times 10^6$ cells/ml.
<b>Morphology:</b>	Suspension, Lymphocyte-like
<b>Sterility:</b>	Negative for mycoplasma, bacteria, and fungi

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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.

**Special Characteristics:** This cell line expresses both T and B cell markers, including CD4. It has been found to be particularly useful for studies about SIV, as it can easily be infected with the virus.

**Recommended Storage:** Keep the reagent in liquid nitrogen.

**Contributor:** Dr. Peter Cresswell

**References:** Salter, R. D., Howell, D. N., & Cresswell, P. (1985). Genes regulating HLA class I antigen expression in T-B lymphoblast hybrids. *Immunogenetics*, 21(3), 235-246. [PUBMED](#)

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: 174xCEM Cells from Dr. Peter Cresswell." Also include the reference cited above in any publications.

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. Peter Cresswell at email address [peter.cresswell@yale.edu](mailto:peter.cresswell@yale.edu) and specify in the email the name of the reagent and a description of the intended use of the reagent.**

**Last Updated** October 01, 2020

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