NIH AIDS Reagent Program
20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent:	CEM-SS Cells
Catalog Number:	776
Lot Number:	130031
Release Category:	C
Provided:	1 mL of cells Cell count= 5 x 10^6 cells/mL Cell viability= 91%
Propagation Medium:	RPMI 1640, 89%; fetal bovine serum, 10%; PSN antibiotics (Gibco), 1%
Freeze Medium:	RPMI 1640, 66%; fetal bovine serum, 27%; DMSO, 7%
Growth Characteristics:	These cells double approximately every 1-2 days and grow as a suspension of single or small (3-10 cell) aggregates. The cells are optimally maintained on a rocker platform or roller bottle apparatus and can be split at 1:20 one to two times per week.
Morphology:	Generally a round, individual, slightly refractile cell population that occasionally forms small aggregates as observed under normal culture conditions. Small numbers of individual highly refractile karyocytomegalic cells may also be observed.
Sterility:	Negative for bacteria, mycoplasma, and fungi
Description:	Human T4-lymphoblastoid cell line initially derived by G.E Foley et al. and biologically cloned by P.L. Nara et al.

Special Characteristics:	These cells have been cloned for both poly-L-lysine induced adherence to microtiter plates and viral-induced syncytial/fusigenic sensitivity following infection with either cell-free or cell-associated HIV-1 and HIV-2. Cells are negative for any virus including human retroviruses as determined by electron microscopy and reverse transcriptase analysis. They can be used for virus production, aspects of HIV-1 cell fusion and molecular biology studies and for the analysis of infectivity, antiviral agents and neutralizing antibodies in the assays referenced below. CEM-SS Microtiter Syncytial-Forming Assay
Recommended Storage:	Keep the reagent in liquid nitrogen. Avoid freeze-thaw cycles as reagent degradation may result.
Contributor:	Dr. Peter L. Nara
References:	Foley GE, Lazarus H, Farber S, Uzman BG, Boone BA, McCarthy RE. Continuous culture of human lymphoblasts from peripheral blood of a child with acute leukemia. *Cancer* **18**:522-529, 1965. Nara PL, Hatch WC, Dunlop NM, Robey WG, Fischinger PJ. Simple, rapid quantitative, syncytium-forming microassay for the detection of human immunodeficiency virus neutralizing antibody. *AIDS Res Hum Retroviruses* **3**:283-302, 1987. Nara PL, Fischinger PJ. Quantitative infectivity assay for HIV-1 and -2. *Nature* **332**:469-470, 1988.
NOTE:	Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: CEM-SS Cells from Dr. Peter L. Nara." Please include the references cited above in any publications. **Available only for non-commercial use. Requests from commercial organizations should be directed to NCI Technology Transder Center at the following email address: lauren.nguyen-antczak@nih.gov.**
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