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DATA SHEET

Reagent:	CEM-TART Cells
Catalog Number:	1944
Lot Number:	3
Release Category:	C
Provided:	1 vial frozen cells.
Cell Type:	Transformed CEM cells expressing HIV-1 *tat* and *rev* genes.
Propagation Medium:	RPMI 1640, 80%; heat-inactivated fetal bovine serum, 20%. Supplement with gentamicin at 1 µg/ml.
Freeze Medium:	Fetal bovine serum, 90%; DMSO, 10%.
Growth Characteristics:	Cells grow in suspension. Maintain at $0.5x10^6$ viable cells/ml. Doubling time is approximately 48 hours. Passage every 2-3 days. Viability is 85-95%, but decreases after infection with MC99IIIBΔTat-Rev.
Sterility:	Negative for bacteria, fungi, and mycoplasma.
Description:	HIV-1 *tat* and *rev* genes are constitutively expressed in CEM-TART cells.
Special Characteristics:	This cell line can be infected by *tat* and *rev*-deficient proviral HIV-1 mutants such as HIV-1 MC99IIIBΔTat-Rev (Catalog #1943) and used to produce mutant virus that replicates only in CEM-TART cells.
Recommended Storage:	Liquid nitrogen.
Contributor:	Drs. Herbert Chen, Terence Boyle, Michael Malim, Bryan Cullen, and H. Kim Lyerly.

References:	Chen H, Boyle JT, Malim MH, Cullen BR, Lyerly HK. Derivation of a biologically contained replication system for human immunodeficiency virus type 1. *Proc Natl Acad Sci USA* **89**:7678-7682, 1992.
NOTE:	Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: CEM-TART Cells from Drs. Herbert Chen, Terence Boyle, Michael Malim, Bryan Cullen, and H. Kim Lyerly." Also include the reference cited above in any publications.
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