



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	CEM-A Cells (CEM-CL10)
<b>Catalog Number:</b>	588
<b>Lot Number:</b>	110128
<b>Release Category:</b>	B
<b>Provided:</b>	1ml/vial 3.8 x 10 <sup>6</sup> cells/vial. Viability is 99%.
<b>Cell Type:</b>	Fusion product of CEM-A and normal PBMC. Morphology is flat, adherent cells which lack cell-cell interactions as determined by TEM.
<b>Propagation Medium:</b>	RPMI 1640 supplemented with 2 mM L-glutamine, 89%; HT Medium (Gibco), 1%; fetal bovine serum, 10%.
<b>Freeze Medium:</b>	Propagation medium, 92.5%; DMSO, 7.5%.
<b>Growth Characteristics:</b>	Remove cells from monolayers with enzyme-free dissociation solution according to instructions (Scientific Products, Columbia, MD, Catlog #T3530-3 or T-3540-4). CEM-A cells will reattach to plastic or glass in approximately 5 minutes. Once the culture is established, cells are maintained in T-75 flasks and subcultured every 4-5 days. The doubling time is 18-24 hours. Cells grow as even monolayers and do not form clumps. Cells must be maintained in HT-containing medium to be infectable by HIV.
<b>Sterility:</b>	Negative for bacteria, yeast, mycoplasma, and mold.
<b>Description:</b>	CEM-A cells express abundant cell surface CD4 and are well suited to HIV infection.
<b>Special Characteristics:</b>	HIV infection of CEM-A cells results in easily detectable multinucleated cells.

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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:** Dr. Mark Wainberg and Dr. James McMahon.

**References:** Tremblay M, Sullivan AK, Rooke R, Gelziunas R, Tsoukas C, Schematek G, Gilmore N, Wainberg MA. New CD4(+) cell line susceptible to infection by HIV-1 *J Med Virol* **28**:243-249, 1989.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: CEM-A from Dr. Mark Wainberg and Dr. James McMahon." Also include the above reference in any publications.

**Last Updated** July 02, 2018

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