



## 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

<b>Reagent:</b>	HIV-1 HXB2 ENV Expressing CHO Cells (CHO-PI)
<b>Catalog Number:</b>	2284
<b>Lot Number:</b>	94020
<b>Release Category:</b>	D
<b>Provided:</b>	1 vial frozen cells.
<b>Cell Type:</b>	Derived from CHO-K1 cells (ATCC)
<b>Propagation Medium:</b>	See below. In addition to HIV-1 env genes, these cells have been stably transfected with a glutamine synthetase gene. Do not add glutamine to the culture medium, as this may select for cells that do not contain the desired env inserts.
<b>Freeze Medium:</b>	GMEM-S medium without MSX, 60%; fetal bovine serum, 30%; DMSO, 10%.
<b>Growth Characteristics:</b>	Split cells every 3-4 days at 1:12. Cells should just reach confluency on day of passage. Cells are heterogeneous and grow as a flat, adherent monolayer, singly or in clusters.
<b>Sterility:</b>	Negative for bacteria, fungi, and mycoplasma.
<b>Description:</b>	CHO cells transfected to express HXB2 envelope protein with a GPI anchor.
<b>Special Characteristics:</b>	CHO-K1 cells were cotransfected with HIV-1 env and rev expression vectors. CHO-PI expresses the HXB2 envelope protein with a glycoposphatidylinositol anchor. The HXB2 env gene lacks complete rev and tat genes, and was introduced using the vector pEE14 (Celltech), which expresses glutamine synthetase.

[Table 1. CHO-Cell Lines](#)

[Protocol: Culture and Syncytium Detection Using CHO-Env Cell Lines](#)

---

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. Carol Weiss and Dr. Judith White.

**References:** Weiss CD, White JM. Characterization of stable Chinese hamster ovary cells expressing wild-type, secreted, and glycosylphosphatidylinositol-anchored human immunodeficiency virus type 1 envelope glycoprotein. *J Virol* **67**:7060-7066, 1993.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 HXB2 ENV Expressing CHO Cells (CHO-PI) from Dr. Carol Weiss and Dr. Judith White." Also include the reference cited above in any publications.

**Last Updated** May 13, 2020

---

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.