



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	HIX-1 HXB2 ENV Expressing CHO Cells (CHO-PI)
Catalog Number:	2284
Lot Number:	94020
Release Category:	D
Provided:	1 vial frozen cells.
Cell Type:	Derived from CHO-K1 cells (ATCC)
Propagation Medium:	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.
Freeze Medium:	GMEM-S medium without MSX, 60%; fetal bovine serum, 30%; DMSO, 10%.
Growth Characteristics:	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.
Sterility:	Negative for bacteria, fungi, and mycoplasma.
Description:	CHO cells transfected to express HXB2 envelope protein with a GPI anchor.
Special Characteristics:	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: HIX-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.

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