

## DATA SHEET

**For research use only. Not for use in humans.**

<b>Reagent:</b>	HL2/3 Cells
<b>Catalog Number:</b>	ARP-1294
<b>Lot Number:</b>	190094
<b>Provided:</b>	Each vial of ARP-1294 contains approximately $3.8 \times 10^6$ cells (passage # 12) in 0.8 mL of freeze medium. Post-thaw viability was 92%.
<b>Cell Type:</b>	ARP-1294 is an adherent, human epithelial-like cell line.
<b>Propagation Medium:</b>	The recommended propagation medium is 90% DMEM with 10% fetal bovine serum.
<b>Freeze Medium:</b>	The recommended freeze medium is Gibco Recovery Cell Culture Freezing Medium.
<b>Growth Characteristics:</b>	ARP-1294 cells should be split 1:10 twice weekly. The cells are stable and do not need to be maintained in the selection medium. If growth in the selection medium is desired, a propagation medium containing 500 µg/mL geneticin (G418) should be used. The culture flask should be changed every two weeks. Repeated passages of this cell line in culture should be avoided because a gradual decrease in Env production occurs after the 15th passage.
<b>Sterility:</b>	Tests for bacteria, fungi, and mycoplasma were negative.
<b>Description:</b>	ARP-1294 is a HeLa derivative that contains stably integrated copies of the human immunodeficiency virus 1 (HIV-1) molecular clone HXB2/3gpt. It was generated by cotransfection of HeLa cells with the plasmids pHXB2/3gpt, pSV2neo and selected in G418. Clone HL2/3 was selected based on the high-level production of Gag, Env, Tat, Rev, and Nef proteins. HL2/3 cells do not produce detectable viral reverse transcriptase (RT) or detectable amounts of mature virions.
<b>Special Characteristics:</b>	Cocultivation of ARP-1294 with CD4-producing cell line HLCD4-CAT (ARP-1299) results in efficient cell fusion within 6-12 hours. Upon fusion, Tat produced by the HL2/3 cells activates chloramphenicol acetyltransferase (CAT) gene expression in HLCD4-CAT cells. The fusion efficiency can be quantitated by assaying for CAT gene activation. Fusion inhibitors decrease CAT enzyme levels in a dose-dependent manner. ARP-1294 can also be used for the production of Env and other viral proteins in the absence of an infectious virus.
<b>Recommended Storage:</b>	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
<b>Contributor:</b>	Dr. Barbara K. Felber and Dr. George N. Pavlakis
<b>References:</b>	Ciminale, V., et al. "A Bioassay for HIV-1 Based on Env-CD4 interaction." <i>AIDS Res. Hum. Retroviruses</i> 6 (1990): 1281-1287. PubMed: 2078409.
<b>Citation:</b>	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: HL2/3 Cells, ARP-1294."
<b>Biosafety Level: 2</b>	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health.

Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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**Note:**

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