



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

Reagent:	☒ HIV-1 infected U937 Cells (U1)
Catalog Number:	165
Lot Number:	150224
Release Category:	C
Provided:	6.0×10^6 cells/mL. Viability is 72%.
Cell Type:	U937 is a pro-monocyte obtained from a pleural effusion of a two-year-old Caucasian male with diffuse histiocytic lymphoma.
Propagation Medium:	RPMI 1640 containing 2.0 mM L-glutamine, 90%; heat-inactivated fetal bovine serum, 10%.
Freeze Medium:	Fetal bovine serum, 90%; DMSO, 10%.
Growth Characteristics:	When thawing, slowly dilute the cells with 37°C medium dropwise. Begin the culture at 2.0×10^6 cells/ml, splitting the cells 24 hours later to give a concentration of 1.0×10^6 cells/ml. Passage the cells every four days thereafter to a concentration of 1.0×10^6 cells/ml. Cells grow in single cell suspension. Doubling time is 36 hours.
Morphology:	Large, semi-granular cells
Sterility:	Negative for bacteria, mold, yeast, and Mycoplasma.
Description:	U1 is a subclone of U937 that has been chronically infected with HIV-1.

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.

Special Characteristics: These cells show minimal constitutive expression of virus. Certain cytokines in addition to phorbol myristate acetate can induce virus expression. The cells can take up and secrete virus into the medium. Surface expression of CD4 is low. Useful for latency induction experiments. Cells should remain in log phase expanded growth (>98% viability) immediately prior to stimulation. Supernatant reverse transcriptase activity and viral antigens can be detected approximately 24-48 hours after stimulation. Observe all BSL-3 practices when working with these cells.

Alternate names: U1, U1/HIV-1

Recommended Storage: Liquid nitrogen.

Contributor: Dr. Thomas Folks.

References: Folks TM, Justement J, Kinter A, Dinarello CA, Fauci AS. Cytokine-induced expression of HIV-1 in a chronically infected promonocyte cell line. *Science* **238**:800-802, 1987.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 infected U937 Cells (U1) from Dr. Thomas Folks." Also include the reference cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact the NIH Office of Technology Transfer, Email: NIAIDAIDSReagent@niaid.nih.gov, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.

Last Updated August 15, 2016

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