

NIH AIDS Reagent Program

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DATA SHEET

Reagent:	A3.01 Cells
Catalog Number:	166
Lot Number:	040915
Release Category:	c
Provided:	I ml (1 x 10^7 cells/ml). Viability is 80%.
Cell Type:	HAT-sensitive derivative of CEM, a human T-cell line derived from the peripheral blood buffy coat of a four-year-old Caucasian female with acute lymphoblastic leukemia. Morphology is mature lymphocyte.
Propagation Medium:	RPMI 1640, 90%; fetal bovine serum, 10%.
Freeze Medium:	Propagation medium, 90%; DMSO, 10%.
Growth Characteristics:	When thawing, dilute the cells with 37°C medium dropwise, wash out the DMSO, and seed the initial culture at 1×10^6 cells/ml. Passage the cells every three days to give a concentration of 1×10^6 cells/ml. Cells grow in single cell suspension. Doubling time is 24 hours. A3.01 has also been grown successfully in OPTI-MEM medium containing 2.5% fetal bovine serum, 2.0 mM L-glutamine, 100 U/ml penicillin and 100 µg/ml streptomycin.
Sterility:	Negative for bacteria, mycoplasma, and fungi.
Description:	A3.01 cells support HIV-1 replication.
Special Characteristics:	A3.01 was selected by growth in hypoxanthine and aminopterin-containing medium. It is suitable for human T-lymphocyte fusions. Cells are Leu-3+, Leu-8+, Leu-1+, <i>tac-</i> , transferrin receptor+, sensitive to infection with LAV, and susceptible to cytopathic effects when infected.

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. Thomas Folks.
References:	Buttke TM, Folks TM. Complete replacement of membrane cholesterol with 4,4', 14-trimethyl sterols in a human T cell line defective in lanosterol demethylation. <i>J Biol Chem</i> 265 :8819-8826, 1992.
	Folks T, Benn S, Rabson A, Theodore T, Hoggan MD, Martin M, Lightfoote M, Sell K. Characterization of a continuous T-cell line susceptible to the cytopathic effects of the acquired immunodeficiency syndrome (AIDS)-associated retrovirus. <i>Proc Natl Acad Sci USA</i> 82 :4539-4543, 1985.
NOTE:	Acknowledgment for publications should read "The following reagent was obtained from the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: A3.01 from Dr. Thomas Folks." Also include the references cited above in any publications.
	Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. Sally Hu at the NIH Office of Technology Transfer, Email: <u>hus@mail.nih.gov</u> , Phone: 301-435-5606, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.
Last Updated	July 24, 2015

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