



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	Jurkat (E6-1) Cells
Catalog Number:	177
Lot Number:	040153
Release Category:	A
Provided:	1 x 10 ⁷ cells/vial, viability is 94%.
Cell Type:	Human T cell leukemia. Jurkat Clone E6-1 was obtained by cloning Jurkat FHCRC at limiting dilution over macrophages. Morphology is lymphocytic.
Propagation Medium:	RPMI 1640 supplemented with 2 mM L-glutamine, 90%; fetal bovine serum, 10%; pen-strep.
Freeze Medium:	Propagation medium, 90%; DMSO, 10%.
Growth Characteristics:	The cells grow as a single cell suspension with occasional clumping. Passage the cells every 2-3 days to maintain a concentration of 1 x 10 ⁵ - 1 x 10 ⁶ cells/ml. Doubling time is less than 24 hours.
Sterility:	Negative for bacteria, mycoplasma, and fungi.
Special Characteristics:	This clone of Jurkat-FHCRC (Dr. Kendall Smith, Dartmouth) produces large amounts of IL-2 after stimulation with both PMA and antibody to T3. The cells are CD4+ and may be induced to secrete Y-interferon.
Recommended Storage:	Liquid nitrogen.
Contributor:	ATCC (Dr. Arthur Weiss).

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.

References: Weiss AL, Wiskocil RL, Stobo JD. The role of T3 surface molecules in the activation of human T cells: A two-stimulus requirement for IL 2 production reflects events occurring at a pre-translational level. *J Immunol* **133**:123-128, 1984.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Jurkat Clone E6-1 from Dr. Arthur Weiss." Also include the reference cited above in any publications.

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