



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	Jurkat (E6-1) Cells
Catalog Number:	177
Lot Number:	160134
Release Category:	A
Provided:	1 mL of cells Post thaw cell count = 4.9×10^6 cells/mL Post thaw cell viability = 59% Cell viability increased to 96% after 7 days in culture
Cell Type:	Human T cell lymphoblast
Propagation Medium:	RPMI 1640 supplemented with 2 mM L-glutamine, 90%; fetal bovine serum, 10%; pen-strep
Freeze Medium:	RPMI, 50%; fetal bovine serum, 40%; 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 1×10^5 - 1×10^6 cells/mL. Doubling time is less than 24 hours.
Morphology:	Lymphocytic
Sterility:	Negative for bacteria, mycoplasma, and fungi
Description:	Jurkat Clone E6-1 was obtained by cloning Jurkat FHCRC at limiting dilution over macrophages.

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: This clone of Jurkat-FHCRC (Dr. Kendall Smith, Dartmouth) produces large amounts of IL-2 after stimulation with both PMA and antibody to CD3. The cells are CD4+ and may be induced to secrete γ -interferon.

Recommended Storage: Keep the reagent in liquid nitrogen. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: ATCC (Dr. Arthur Weiss)

References: Weiss, A., Wiskocil, R. L., & Stobo, J. D. (1984). 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(1), 123-128. [PUBMED](#)

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 (cat# 177)." Also include the reference cited above in any publications.

Last Updated July 18, 2018

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