

Jurkat, Clone E6-1 Cells

Catalog No. HRP-177

Product Description:

HRP-177 is a human T-cell lymphoblast cell line and clone of the Jurkat-FHCRC cell line (Dr. Kendall A. Smith, Dartmouth College), obtained by cloning the Jurkat-FHCRC cell line at limiting dilution over macrophages. HRP-177 produces large amounts of IL-2 protein after stimulation with both phorbol myristate acetate (PMA) and CD3 antibody. The cells are CD4⁺ and may be induced to secrete γ-interferon. HRP-177 lot 70065462 is preserved in 5% dimethyl sulfoxide (DMSO).

Lot: 70065462

Manufacturing Date: 12DEC2023

TEST	SPECIFICATIONS	RESULTS
Morphology	Report results	Round
Growth Properties	Suspension	Suspension
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Human origin No evidence of another species	Human origin No evidence of another species
Total Cell Count	Report results	1.5 × 10 ⁷ cells/vial
Post-Freeze Viability	≥ 50%	77.4%
Sterility (14-day incubation)¹ Harpo's HTYE broth, 37°C and 26°C, aerobic ² Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

¹In 5% CO₂ atmosphere

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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03 AUG 2026

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