

Product sheet

MOLT-3 | 300116

General Information

Description	MOLT-3 is a human T-lymphocyte cell line established from a 19-year-old male patient with hairy-cell leukemia. The cells are CD5 (97%) and CD7 (97%) positive and are known to be EBV (EBV) negative.
Organism	Human
Tissue	Leukemia
Disease	Hairy-cell leukemia (ALL)
Synonyms	HTL-3, HTL-3, HTL-3, HTL-3, HTL-3, HTL-3, HTL-3

Characteristics

Age	19 years
Gender	Male
Ethnicity	White
Morphology	Large, hairy cells
Cell type	Leukemia cells
Growth properties	Adherent

References and Accession

Citation	MOLT-3 (ATCC CCL-300116)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0624

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Antigen expression CD1(+), CD5(+), CD7(+), CD11a(+) (ATCC CCL-23 1988).

Karyotype 46, XY, karyotype

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Culture Medium RPMI 1640, 2.0 mM L-glutamine, 2.0 mM NaHCO₃ (ATCC 820700a)

Supplements 10% FBS

Doubling time 24-48 hours

Subculturing 5-6 passages, 5 x 10⁵ cells

Seeding density 0.5 x 10⁵ cells/cm²

Freeze medium 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath.
 2. Centrifuge cells at 300 x g for 3 minutes.
 3. Resuspend cells in 10 ml of complete medium.
 4. Seed cells into a T75 flask at a density of 70%.
 5. Incubate cells in a humidified CO₂ incubator at 37°C for 15-18 hours.
 6. Check for cell attachment and viability.
 7. Replace medium with fresh complete medium after 24 hours.
 8. Perform subcultures as described in the subculturing section.

