

TK6 | 300357

Description TK6 is a cell line derived from a 5-year-old child with a history of acute lymphoblastic leukemia (ALL). It is a B-cell precursor cell line that is highly sensitive to chemotherapy and is used as a model for studying the effects of chemotherapy on normal B-cell development. The cell line is maintained in suspension culture in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 100 U/ml penicillin, 100 U/ml streptomycin, and 100 U/ml nystatin. The cell line is characterized by its high growth rate and its ability to form colonies in soft agar.

Organism Homo sapiens

Tissue Bone marrow

Synonyms TK-6, H2BT

Age 5 years

Gender Male

Cell type B cell, Lymphocyte

Growth properties Adherent

Citation TK6 (ATCC CCL-233) (300357)

Biosafety level 2

NCBI_TaxID 9606

CellosaurusAccession CVCL_0561

Culture Medium RPMI 1640 (Gibco) + 2.0 mM L-glutamine (Gibco) + 2.0 mM NaHCO3 (Gibco) + 10% FBS (Gibco)

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Supplements	DMEM supplemented with 10% FBS, 2,5% serum
Subculturing	1:5, 1:5, 1:6
Seeding density	1×10^5 cells/cm ²
Fluid renewal	2-3 times per week
Freeze medium	DMEM supplemented with 10% FBS + 10% DMSO
Thawing and Culturing Cells	<ol style="list-style-type: none">1. Thaw cells in a 37°C water bath.2. Dilute cells in DMEM medium.3. Seed cells into a 25 cm² flask.4. Incubate cells until they reach 70% confluency.5. Perform subculturing.6. Seed cells at a density of 300×10^3 cells/cm².7. Incubate cells for 10 days.8. Harvest cells.
Incubation Atmosphere	37°C, 5% CO ₂
Flask Coating	Not required
Freezing Procedure	Freeze cells in DMEM + 10% FBS + 10% DMSO at -80°C.
Shipping Conditions	Ship cells in DMEM + 10% FBS + 10% DMSO at -80°C.

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Storage Conditions

Store at -150 °C to -196 °C. Do not freeze. Do not thaw. Do not shake. Do not centrifuge. Do not dilute. Do not use after the expiration date.

/ / HLA

Sterility

Not sterile. Sterilized by gamma irradiation (PCR). Do not use after the expiration date.

- HLA**
- A*:** '01:01:01, '02:01:01
- B*:** '51:158:02, '57:01:01
- C*:** '06:02:01, '14:02:01
- DRB1*:** '07:01:01
- DQA1*:** '02:01:01
- DQB1*:** '02:02, '03:03:02
- DPB1*:** '13:01:01, '16:01:01
- E:** '01:03:02, '01:09