

KG-1 | 300208

Cell Line Information

Description	KG-1 is a human acute myeloid leukemia (AML) cell line derived from a patient with AML. It is a continuous cell line that grows in suspension and is characterized by its high proliferation rate and sensitivity to chemotherapy. KG-1 is a derivative of the KG-1 cell line, which was established from a patient with AML. It is a continuous cell line that grows in suspension and is characterized by its high proliferation rate and sensitivity to chemotherapy.
Organism	Human
Tissue	Leukemia
Disease	Acute Myeloid Leukemia (AML)
Synonyms	KG1

Cell Line Characteristics

Age	59 years
Gender	Male
Ethnicity	Chinese
Cell type	Myeloid
Growth properties	Continuous

Cell Line Identification

Citation	KG-1 (Cell Line) 300208
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0374

Cell Line Authentication

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Antigen expression	HLA A30 B31 B35 Cw4
Isoenzymes	G6PD, B, PGM1, 1-2, PGM3, 0, ES-D, 1, Me-2, 1, AK-1, 0, GLO-1, 2
Viruses	EBV (EBNA): +
Reverse transcriptase	+
CD45RO	+
Culture Medium	IMDM + 4.5 g/l glucose + 4 mM glutamine + 25 mM HEPES + 1.0 mM sodium butyrate
Supplements	10% FBS
Doubling time	45 days
Subculturing	1:5 to 1:10
Fluid renewal	3 times
Post-Thaw Recovery	24 hours
Freeze medium	10% FBS + 10% DMSO

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Thawing and
Culturing Cells

1. Thaw the cells quickly in a water bath at 37 °C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 × g for 3 minutes. Remove the supernatant and resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a 75 cm² flask containing 37 ml of pre-warmed medium.
4. Incubate the cells at 37 °C in 5% CO₂ atmosphere. The cells should reach 70% confluency within 7 days.
5. Once the cells are confluent, they can be used for experiments or passaged.
6. For passaging, trypsinize the cells and seed them into a new flask.
7. The cells should reach 70% confluency within 7 days.
8. The cells can be used for experiments or passaged.

Incubation
Atmosphere

37 °C, 5% CO₂

Flask Coating

Not required

Freezing
Procedure

Cells should be frozen in a freezing medium and stored at -80 °C.

Shipping
Conditions

Cells should be shipped on dry ice and stored at -80 °C.

Storage
Conditions

Cells should be stored at -150 °C to -196 °C.

Sterility

Cells are provided as a suspension in a sterile medium. The medium is tested for mycoplasma contamination (PCR) and found to be negative. The cells are also tested for endotoxin and found to be negative.