

Product sheet

RT-4 | 300326

Cell Line

Description	Human cell line established in 1970 from a patient with acute leukemia.
Organism	Human
Tissue	Leukemia
Disease	Acute leukemia
Synonyms	RT4, RT4P

Cell Line Characteristics

Age	63 years
Gender	Male
Ethnicity	White
Morphology	Adherent, fibroblastic
Growth properties	Continuous growth

Cell Line Identification

Citation	RT-4 (ATCC CCL-222) 300326
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0036

Cell Line Applications

Protein expression	P53, CD44
---------------------------	-----------

RT-4 | 300326

Antigen expression HLA A25(10)A25(10)A3B12Cw3 O

Isoenzymes 211PGM11-2PGM31-2ES-D11-2AK-111GLO-11-2G6PD B 0.0050

Tumorigenic

Karyotype (P174)

RT-4

Culture Medium EMEM (MEM Eagle) 2 2.2 NaHCO3 EBSS (820100a)

Supplements

Dissociation Reagent

Subculturing

Fluid renewal 2 3

Freeze medium (FBS) + 10% DMSO

RT-4 | 300326

Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature.
2. Centrifuge the cells at 300 x g for 3 minutes at 4°C. Resuspend the cells in 10 ml of complete medium.
3. Seed the cells into a 25 cm² flask containing 10 ml of complete medium. Incubate the cells at 37°C in 5% CO₂.
4. When the cells reach 70% confluence, passage them into a new flask.
5. Seed the cells into a 25 cm² flask containing 10 ml of complete medium. Incubate the cells at 37°C in 5% CO₂.
6. Centrifuge the cells at 300 x g for 3 minutes at 4°C. Resuspend the cells in 10 ml of complete medium.
7. Seed the cells into a 25 cm² flask containing 10 ml of complete medium. Incubate the cells at 37°C in 5% CO₂.
8. When the cells reach 70% confluence, passage them into a new flask.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating Cell culture medium

Freezing Procedure Seed cells into a 25 cm² flask containing 10 ml of complete medium. Incubate the cells at 37°C in 5% CO₂.

Shipping Conditions Store cells at -78°C.

Storage Conditions Store cells at -150°C to -196°C.

RT-4 / RT-4 / HLA

Sterility The cells are free of mycoplasmas and other contaminants. (PCR) The cells are free of mycoplasmas and other contaminants.

XXXXXXXXRT-4 | 300326

XXXXXXXX HLA

A*: '02:01:01, '03:01:01

B*: '44:02:01

C*: '05:01:01

DRB1*: '04:01:01, '14:54:01

DQA1*: '01:04:01, '03:03:01

DQB1*: '03:01:01, '05:03:01

DPB1*: '04:01:01, '682:01:00

E: '01:01, '01:03