

Product sheet

RT-4 | 300326

RT-4

Description	RT-4 (ATCC CCL-22) is a human rhabdomyosarcoma cell line established in 1970 by Rigby et al.
Organism	Human
Tissue	Embryonic muscle
Disease	Rhabdomyosarcoma
Synonyms	RT4, RT4P

RT-4

Age	63 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

RT-4

Citation	RT-4 (ATCC CCL-22) Cytion 300326
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0036

RT-4

Protein expression	P53
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Antigen expression HLA A25(10), A3, B12, Cw3, O

Isoenzymes Me-2, 1, PGM1, 1-2, PGM3, 1-2, ES-D, 1-2, AK-1, 1, GLO-1, 1-2, G6PD, B, 0.0050

Tumorigenic, , 10% FBS 1% NEAA

Karyotype (P174) 46,XY,t(11;17)(p11;p11)

Media

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Cytion 820100a)

Supplements 10% FBS 1% NEAA

Dissociation Reagent

Subculturing 1-3 x 10^5 cells/ml in EMEM (MEM Eagle) + 10% FBS + 1% NEAA in T25, 3-5 x 10^5 cells/ml in EMEM (MEM Eagle) + 10% FBS + 1% NEAA in 75 cm^2 flasks.

Fluid renewal 2-3 times per week

Freeze medium EMEM (MEM Eagle) + 10% FBS + 10% DMSO + 1% NEAA

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the vial to sit on the bottom of the bath. Remove the vial and transfer the cells to a 15 mL centrifuge tube.
2. Centrifuge at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 mL of complete medium.
3. Seed the cells into a T25 flask containing 50 mL of complete medium.
4. Incubate the cells at 37°C with 5% CO₂ until they reach 70% confluency.
5. Harvest the cells by trypsinization and centrifugation at 300 x g for 3 minutes.
6. Resuspend the cells in 10 mL of complete medium and seed into a T25 flask.
7. Incubate the cells at 37°C with 5% CO₂ until they reach 70% confluency.
8. Harvest the cells by trypsinization and centrifugation at 300 x g for 3 minutes.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Flasks are pre-coated with poly-D-lysine.

Freezing Procedure

Resuspend cells in 1 mL of freezing medium and freeze at -80°C.

Shipping Conditions

Store at -80°C until shipping.

Storage Conditions

Store at -150°C for up to 196 months.

HLA

Sterility

Cells are tested for sterility using PCR.

Cells are tested for mycoplasma contamination.

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██████ 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