

# T84 | 300354

<b>Description</b>	Epithelial cell line derived from a human bladder carcinoma (T84) [1]. The cells are highly proliferative and form a monolayer of cells in culture. They are characterized by their ability to form a tight junction barrier and their resistance to anoikis. T84 cells are commonly used in research on cell adhesion, signaling, and drug resistance in cancer models.
<b>Organism</b>	Human
<b>Tissue</b>	Bladder
<b>Disease</b>	Bladder cancer
<b>Metastatic site</b>	Bladder
<b>Synonyms</b>	T-84, T 84
<b>Age</b>	72 years
<b>Gender</b>	Male
<b>Morphology</b>	Epithelial cells, forming a monolayer
<b>Growth properties</b>	Highly proliferative, forming a tight junction barrier
<b>Citation</b>	T84 (ATCC CRL-2539) [1]
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellosaurusAccession</b>	CVCL_0555

<b>Receptors expressed</b>	Epithelial cells, forming a monolayer
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<b>Antigen expression</b>	CD45+ (CD44 <sup>high</sup> CD24 <sup>low</sup> CD34 <sup>low</sup> CD133 <sup>low</sup> )
<b>Isoenzymes</b>	G6PD <sup>B</sup> PGM1 <sup>1</sup> PGM3 <sup>1</sup> ES-D <sup>1</sup> Me-2 <sup>1-2</sup> AK-1 <sup>1</sup> GLO-1 <sup>1-2</sup>
<b>Tumorigenic</b>	Yes
<b>Products</b>	CD45 <sup>+</sup> CD44 <sup>high</sup> CD24 <sup>low</sup> CD34 <sup>low</sup> CD133 <sup>low</sup> (CEA) <sup>+</sup> 600 cells/ml / 10 <sup>6</sup> cells/ml 6 <sup>+</sup> 10 <sup>6</sup> cells/ml
<b>Mutational profile</b>	T84: CD44 <sup>high</sup> CD24 <sup>low</sup> CD34 <sup>low</sup> CD133 <sup>low</sup> GGC(Wt Gly) >GAC(Asp)
<b>Karyotype</b>	46,XX,XXY,del(1)(p11),t(1;13)(p11;p13) GGC(Wt Gly) >GAC(Asp)
<b>Culture Medium</b>	DMEM 12% 1.0% FBS 1.0% FBS 1.1% NaHCO <sub>3</sub> (10% FBS)
<b>Supplements</b>	10% FBS
<b>Dissociation Reagent</b>	Trypsin
<b>Subculturing</b>	1:10 to 1:1000 in DMEM 12% 1.0% FBS 1.0% FBS 1.1% NaHCO <sub>3</sub> (10% FBS)
<b>Fluid renewal</b>	2x weekly
<b>Freeze medium</b>	DMEM 12% 1.0% FBS 1.0% FBS 1.1% NaHCO <sub>3</sub> (10% FBS) + 10% DMSO

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### Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in pre-warmed medium.
3. Seed the cells into a 25 cm<sup>2</sup> flask containing 37 mL of pre-warmed medium.
4. Incubate the cells at 37°C in a 5% CO<sub>2</sub> atmosphere until they reach 70% confluency.
5. Harvest the cells by trypsinization. Seed 15 x 10<sup>6</sup> cells into 8 wells of a 96-well plate.
6. Incubate the cells at 37°C in a 5% CO<sub>2</sub> atmosphere for 10 days.
7. Harvest the cells and analyze them by flow cytometry.
8. Store the cells in liquid nitrogen for long-term storage.

### Incubation Atmosphere

37°C, 5% CO<sub>2</sub>

### Flask Coating

Flasks should be coated with the appropriate coating solution before use.

### Freezing Procedure

Cells should be frozen in a controlled rate freezer at -80°C.

### Shipping Conditions

Cells should be shipped at -78°C.

### Storage Conditions

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

/ / HLA

### Sterility

Cells are provided in a sterile, cryoprotective medium (PCR) and are free of mycoplasma contamination.

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**HLA**

**A\*:** '02:01:01, '24:02:01

**B\*:** '18:01:01, '35:01:01

**C\*:** '04:01:01, '07:01:01

**DRB1\*:** '01:01:01, '09:01:02

**DQA1\*:** '01:01:01, '03:02:01

**DQB1\*:** '03:03:02, '05:01:01

**DPB1\*:** '02:01:02, '04:01:01

**E:** '01:03:01, '01:03:02