

Product sheet

**HuT-78 | 300338**

**General Information**

<b>Description</b>	HuT-78 is a human T cell leukemia virus type I (HTLV-I) transformed T cell line. It is a clonal population of T cells that are highly tumorigenic and express HTLV-I provirus. HuT-78 cells are used for studying HTLV-I biology and T cell leukemia. HuT-78 cells are highly tumorigenic and express HTLV-I provirus. HuT-78 cells are used for studying HTLV-I biology and T cell leukemia.
<b>Organism</b>	Human
<b>Tissue</b>	T cell
<b>Disease</b>	Human T-cell leukemia virus type I (HTLV-I) infection
<b>Synonyms</b>	Hut 78, HUT 78, HuT 78, HUT-78, HuT78, Hut78, HUT78, NCI-H78

**Cell Culture**

<b>Age</b>	53 years
<b>Gender</b>	Male
<b>Ethnicity</b>	Japanese
<b>Morphology</b>	Clonal T cell
<b>Cell type</b>	CD4+ CD8- T cell
<b>Growth properties</b>	Adherent

**References**

<b>Citation</b>	HuT-78 (ATCC CCL-221)   Cytion 300338
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellSaurusAccession</b>	CVCL_0337

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**Cell Line**

**Receptors expressed** IL-2 (IL-2)

**Protein expression** P53

**Antigen expression** CD4

**Products** IL-2 (IL-2), TNF

**Media**

**Culture Medium** RPMI 1640, w: 2.0 mM, w: 2.0 g/L NaHCO<sub>3</sub> (Cytion 820700a)

**Supplements** 10% FBS

**Subculturing** 5, 5, 6, 5 x 10

**Seeding density** 1 x 10<sup>5</sup>

**Fluid renewal** 2-3

**Post-Thaw Recovery** 24-48

**Freeze medium** (FBS) + 10% DMSO

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#### Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to warm to room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.
3. Once the cells have attached, replace the medium with fresh pre-warmed medium.
4. Harvest the cells when they reach 70-80% confluency.
5. Seed the cells into a new flask with 15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.
6. Harvest the cells when they reach 70-80% confluency.
7. Seed the cells into a new flask with 15 mL of medium. Incubate at 37°C with 5% CO<sub>2</sub>.
8. Harvest the cells when they reach 70-80% confluency.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified air

**Flask Coating** Cell culture medium

**Freezing Procedure** Harvest cells at 70-80% confluency, resuspend in freezing medium, freeze at -80°C

**Shipping Conditions** Store at -80°C

**Storage Conditions** Store at -150°C for up to 196 months

### Genotype / Phenotype / HLA

**Sterility** Cells are free of mycoplasmas and other contaminants. PCR confirmed.

██████ HuT-78 | 300338

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██████ HLA

**A\***: 01:01:01

**B\***: 15:01:01

**C\***: 03:03:02

**DRB1\***: 04:01:01

**DQA1\***: 03:01:01

**DQB1\***: 03:02:01

**DPB1\***: 04:01:01

**E**: 01:03:02