

3T3-L1 | 400107

3T3-L1

Description
3T3-L1 is a cell line derived from mouse embryonic fibroblasts. It is a continuous cell line that grows in the presence of insulin, transferrin, and selenium (ITS) supplements. The cells are typically used for studying cell growth, differentiation, and gene expression. The cell line is characterized by its ability to form colonies in soft agar and its sensitivity to growth factors.

Organism: Mus musculus

Tissue: Fibroblast

Applications: Cell culture, gene expression analysis, drug screening

Synonyms: 3T3 L1, 3T3L1, 3T3L1, 3T3-L1 ad, NIH-3T3-L1, NIH3T3-L1

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Breed/Subspecies: Mus musculus

Age: Adult

Gender: Male

Morphology: Fibroblast, epithelial-like morphology

Growth properties: Adherent, requires growth factors

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Citation: 3T3-L1 (ATCC CCL-214) (400107)

Biosafety level: 1

NCBI_TaxID: 10090

CellosaurusAccession: CVCL_0123

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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 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a T75 flask containing 37 ml of pre-warmed medium.
4. Incubate the cells at 37°C in a humidified atmosphere with 5% CO2. The cells should reach 70% confluency within 7-10 days.
5. Once the cells reach 70% confluency, they can be passaged. Seed 15 ml of cells into 8 T25 flasks.
6. The cells should reach 70% confluency within 7-10 days.
7. Harvest the cells by trypsinization. Seed 10 ml of cells into 3 T25 flasks.
8. The cells should reach 70% confluency within 7-10 days.

Incubation Atmosphere 37°C, 5% CO2, humidified atmosphere

Flask Coating None

Freezing Procedure Harvest cells by trypsinization. Seed 10 ml of cells into 3 T25 flasks. Freeze cells in 1 ml of freezing medium in 1.5 ml microcentrifuge tubes. Store at -150°C.

Shipping Conditions Cells should be shipped at -78°C.

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

3T3-L1 / HLA

Sterility Cells are tested for mycoplasma contamination using PCR. Cells are free of mycoplasma contamination.