

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 culture. 3T3-L1 cells are used for various applications, including cell biology, immunology, and cancer research. 3T3-L1 cells are characterized by their ability to differentiate into adipocytes when treated with specific growth factors. 3T3-L1 cells are also used for the study of cell growth, cell death, and cell signaling. 3T3-L1 cells are a widely used model system for studying the effects of various treatments on cell growth and differentiation.

Organism Mus musculus

Tissue Adipose tissue

Applications 3T3-L1 cells are used for various applications, including cell biology, immunology, and cancer research. 3T3-L1 cells are used for the study of cell growth, cell death, and cell signaling. 3T3-L1 cells are also used for the study of the effects of various treatments on cell growth and differentiation.

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

3T3-L1

Breed/Subspecies 3T3-L1

Age 3T3-L1

Gender 3T3-L1

Morphology 3T3-L1

Growth properties 3T3-L1

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Citation 3T3-L1 (3T3-L1) Cytion 400107

Biosafety level 1

NCBI_TaxID 10090

CellosaurusAccession CVCL_0123

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed T25 flask containing 5 ml of complete medium. Gently mix the cells and incubate for 24 hours to allow attachment.
2. After 24 hours, check for cell attachment. If cells are not attached, centrifuge the flask at 300 x g for 3 minutes and add 5 ml of fresh complete medium. Incubate at 37°C for 24 hours.
3. Once cells are attached, remove the medium and replace it with 5 ml of fresh complete medium. Incubate at 37°C for 24 hours.
4. After 24 hours, check for cell attachment. If cells are not attached, centrifuge the flask at 300 x g for 3 minutes and add 5 ml of fresh complete medium. Incubate at 37°C for 24 hours.
5. Once cells are attached, remove the medium and replace it with 5 ml of fresh complete medium. Incubate at 37°C for 24 hours.
6. After 24 hours, check for cell attachment. If cells are not attached, centrifuge the flask at 300 x g for 3 minutes and add 5 ml of fresh complete medium. Incubate at 37°C for 24 hours.
7. Once cells are attached, remove the medium and replace it with 5 ml of fresh complete medium. Incubate at 37°C for 24 hours.
8. After 24 hours, check for cell attachment. If cells are not attached, centrifuge the flask at 300 x g for 3 minutes and add 5 ml of fresh complete medium. Incubate at 37°C for 24 hours.

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

Flask Coating None

Freezing Procedure Harvest cells into a 15 ml falcon tube and centrifuge at 300 x g for 3 minutes. Resuspend the pellet in 1 ml of freezing medium. Aliquot into 1 ml vials and store at -80°C.

Shipping Conditions Store at -80°C. Ship on dry ice.

Storage Conditions Store at -150°C for 196 days.

Genotype / HLA

Sterility The cells are free of mycoplasmas and PCR confirmed negative for mycoplasmas.