

MC3T3-E1 Subclone 14 | 305185

MC3T3-E1 Subclone 14

Description

MC3T3-E1 Subclone 14 is a clonal cell line derived from the MC3T3-E1 cell line. It is a fibroblast cell line that is highly proliferative and capable of forming colonies. The cells are typically grown in DMEM supplemented with 10% fetal bovine serum (FBS). MC3T3-E1 Subclone 14 is characterized by its ability to form colonies in the presence of 3-4 mM glucose. The cells are highly sensitive to oxidative stress and are used in studies related to oxidative stress, mitochondrial function (MIF) and RNA. The cells are also used in studies related to cell growth, cell death, and cell differentiation.

Organism Mouse

Tissue Skin, Fibroblasts

Applications Cell culture, Differentiation, Cell death

Synonyms MC3T3-E1 Subclone 14

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Breed/Subspecies C57BL/6

Age 3-4 weeks

Gender Male

Morphology Fibroblasts

Growth properties High

MC3T3-E1 Subclone 14

Citation MC3T3-E1 Subclone 14 (Cytion 305185)

Biosafety level 1

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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. Seed the cells into a well of a 96-well plate at a density of 100,000 cells per well. Incubate at 37°C with 5% CO₂.
3. After 24 hours, the cells should be visible. Change the medium to fresh medium.
4. After 48 hours, the cells should be confluent. Harvest the cells at 70% confluence.
5. Seed the cells into a well of a 96-well plate at a density of 15,000 cells per well. Incubate at 37°C with 5% CO₂.
6. After 24 hours, the cells should be visible. Change the medium to fresh medium.
7. After 48 hours, the cells should be confluent. Harvest the cells at 10% confluence.
8. After 72 hours, the cells should be confluent. Harvest the cells at 10% confluence.

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

Flask Coating No coating

Freezing Procedure Harvest cells at 70-80% confluence. Wash with PBS. Add 1 ml of freezing medium per 10⁶ cells. Freeze at -80°C.

Shipping Conditions Ship at -80°C.

Storage Conditions Store at -150°C for up to 196 weeks.

Genotype / HLA

Sterility

PCR genotyping for mycoplasma contamination. Results are available upon request.

Endotoxin testing: LAL test results are available upon request.