

HC11 | 305050

Description

HC11 is a cell line derived from mouse embryonic stem (ES) cells. It is a fibroblast cell line that is highly proliferative and capable of forming teratomas. The cell line is maintained in a serum-free medium containing insulin, transferrin, and selenium (ITS) supplements. The cell line is characterized by its ability to form all three germ layers (ectoderm, mesoderm, and endoderm) and is therefore used as a model for studying cell differentiation and development. The cell line is also used for studying the effects of various growth factors and signaling molecules on cell proliferation and differentiation.

Organism

Mouse

Tissue

Fibroblast

Synonyms

HC-11, HC11

Breed/Subspecies

Swiss/3T3

Age

1 year

Gender

Male

Morphology

Fibroblast

Growth properties

Adherent

Citation

HC11 (ATCC CRL-2181) (305050)

Biosafety level

1

NCBI_TaxID

9606

CellosaurusAccession

CVCL_0288

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Culture Medium RPMI 1640 (2.0 mM) (L-glutamine free) (2.0 mM) / NaHCO₃ (820700a) (10 mM)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 50-80 hours

Subculturing Cells are harvested by trypsinization and resuspended in PBS. Cells are then seeded into new flasks.

Fluid renewal 2-3 times per week

Freeze medium Cells are resuspended in DMEM (10% FBS) + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
 2. Dilute cells in DMEM (10% FBS) and seed into a flask.
 3. Incubate cells in a 37°C incubator.
 4. Monitor cell growth and confluency.
 5. Harvest cells when they reach 70-80% confluency.
 6. Seed cells into a new flask.
 7. Repeat the process.
 8. Maintain cells in a 37°C incubator.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

