

HFL1 | 305065

General information

Description	HFL1, human fetal liver fibroblast, immortalized cell line. It is derived from a 12-week-old fetus and is used for various research purposes, including gene expression studies and drug screening. The cells are maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. They are typically grown in 25 cm ² flasks and are passaged every 2-3 weeks. The cells are characterized by their high confluency and rapid growth rate.
Organism	Human
Tissue	Fetal liver
Synonyms	HFL-1, HFL 1, Human Fetal Liver Fibroblast 1, HFL

Characteristics

Age	12 weeks
Gender	Male
Morphology	Fibroblast
Growth properties	Adherent

Identification and documentation

Citation	HFL1 (Human Fetal Liver Fibroblast) Cytion 305065
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0298

Additional information

References

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Culture Medium Ham's F12K Medium, w: 2.0 mM L-Glutamine, w: 2.0 mM Sodium pyruvate, w: 2.5 g/L NaHCO₃ (Cytion 820608a)

Supplements Cytion 820608a 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are grown in 25 cm² flasks in Ham's F12K Medium supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in 10 ml of Ham's F12K Medium supplemented with 10% FBS. Cells are then seeded into new flasks at a density of 1 x 10⁶ cells per flask.

Fluid renewal 2 x 3 ml medium change

Freeze medium Cells are grown in Ham's F12K Medium supplemented with 10% FBS. For freezing, cells are trypsinized and resuspended in 10 ml of Ham's F12K Medium supplemented with 10% FBS and 10% DMSO. Cells are then seeded into new flasks at a density of 1 x 10⁶ cells per flask.

Thawing and Culturing Cells

1. Cells are thawed in a 37°C water bath and resuspended in 10 ml of Ham's F12K Medium supplemented with 10% FBS.
2. Cells are seeded into a 25 cm² flask in Ham's F12K Medium supplemented with 10% FBS.
3. Cells are grown in Ham's F12K Medium supplemented with 10% FBS.
4. Cells are trypsinized and resuspended in 10 ml of Ham's F12K Medium supplemented with 10% FBS.
5. Cells are seeded into a 25 cm² flask in Ham's F12K Medium supplemented with 10% FBS.
6. Cells are grown in Ham's F12K Medium supplemented with 10% FBS.
7. Cells are trypsinized and resuspended in 10 ml of Ham's F12K Medium supplemented with 10% FBS.
8. Cells are seeded into a 25 cm² flask in Ham's F12K Medium supplemented with 10% FBS.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Cells are grown in Ham's F12K Medium supplemented with 10% FBS. For freezing, cells are trypsinized and resuspended in 10 ml of Ham's F12K Medium supplemented with 10% FBS and 10% DMSO. Cells are then seeded into new flasks at a density of 1 x 10⁶ cells per flask.

