

OS1-CLS | 500369

General information

Description	Mouse embryo fibroblast (MEF) cells derived from Sprague-Dawley.
Organism	Mouse
Tissue	Embryo
Disease	None

Characteristics

Breed/Subspecies	Swiss-Webster
Age	3-6 weeks
Gender	Male
Growth properties	Adherent

Identification and safety

Citation	OS1-CLS (Mouse embryo fibroblast Cytion 500369)
Biosafety level	1
NCBI_TaxID	10116
CellosaurusAccession	CVCL_5851

Genotyping and authentication

Media

Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO3 820400a)
Supplements	Insulin, Transferrin 10% FBS

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Dissociation
Reagent

Trypsin

Subculturing

Cells are grown in 25 cm² flasks in DMEM supplemented with 10% FBS. For subculturing, cells are trypsinized and resuspended in DMEM supplemented with 10% FBS. Cells are then seeded into new flasks at a density of 1 x 10⁵ cells per flask.

Split ratio

1:3 to 1:5

Fluid renewal

2 to 3 times per week

Freeze
medium

Freezing medium: DMEM supplemented with 10% FBS, 10% DMSO, and 10% FBS. Cells are seeded into freezing medium at a density of 1 x 10⁵ cells per flask.

Thawing and
Culturing Cells

1. Thaw cells rapidly in a 37°C water bath. Transfer cells to a 15 mL tube and centrifuge at 300 x g for 5 minutes. Resuspend cells in DMEM supplemented with 10% FBS.
2. Seed cells into a 25 cm² flask. Incubate cells for 24 hours to allow attachment.
3. Replace medium with fresh DMEM supplemented with 10% FBS.
4. Monitor cell growth and confluency. Once cells reach 70% confluency, passage cells.
5. Harvest cells by trypsinization and resuspend in DMEM supplemented with 10% FBS. Seed cells into a new 25 cm² flask.
6. Incubate cells for 24 hours to allow attachment.
7. Replace medium with fresh DMEM supplemented with 10% FBS.
8. Monitor cell growth and confluency. Once cells reach 70% confluency, passage cells.

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Not required

Freezing
Procedure

Cells are seeded into freezing medium at a density of 1 x 10⁵ cells per flask. Cells are then frozen in a controlled rate freezer and stored at -80°C.

Shipping
Conditions

Cells are shipped in a controlled rate freezer and stored at -80°C.

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Storage
Conditions

Store at -150 to -196 °C. Do not thaw. After thawing, store at -150 to -196 °C. Do not freeze. Do not use after expiration date.

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Sterility

OS1-CLS is sterile. PCR products are not sterile.

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STR

- Rat_D1Wox31: 104
- Rat_D2Wox37: 156
- Rat_D19Wox11: 228
- Rat_D10Wox8: 266
- Rat_D4Wox7: 145
- Rat_D2Wox27: 207
- Rat_D5Rat33: 124
- Rat_D10Wox11: 171
- Rat_D1Wox23: 226
- Rat_D12Wox1: 414
- Rat_D6Wox2: 112,116
- Rat_D8Wox7: 182
- Rat_D6Cebr1: 231
- SRY: x,x