

Product sheet

3T3-Swiss albino | 400103

General Information

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|---------------------|--|
| Description | 3T3-Swiss Albino is a continuous cell line derived from Swiss 3T3 cells. It is characterized by its ability to form colonies and is commonly used in cell culture research. The cells are typically grown in DMEM supplemented with 10% fetal bovine serum (FBS) and are maintained at 37°C in a humidified atmosphere of 5% CO ₂ . The cells are known for their high proliferation rate and are often used for studying cell growth, differentiation, and drug response. The cell line is maintained in a continuous culture and is available from Cytion as a cryopreserved stock. |
| Organism | Human |
| Tissue | Embryonic fibroblasts |
| Applications | Cell culture, drug screening, toxicity testing, cell biology research, and as a model for studying cell growth and differentiation. |
| Synonyms | 3T3, 3T3-Swiss Albino, Swiss-3T3, Swiss 3T3, Swiss3T3 |

Characteristics

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|--------------------------|--|
| Breed/Subspecies | Human |
| Age | Adult |
| Gender | Male |
| Morphology | Adherent, fibroblastic |
| Cell type | Primary cell line |
| Growth properties | High proliferation rate, typical of fibroblasts. |

References and Safety

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|-----------------------------|---|
| Citation | 3T3-Swiss Albino (ATCC CCL-3) (Cytion 400103) |
| Biosafety level | 1 |
| NCBI_TaxID | 10090 |
| CellosaurusAccession | CVCL_0120 |

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3T3-Swiss albino

| | |
|------------------------------|-------------|
| Tumorigenic | Yes |
| Viruses | SV40 (SV40) |
| Virus susceptibility | SV40, SV40 |
| Reverse transcriptase | Yes |
| Products | T |
| Ploidy status | Diploid |
| Karyotype | 2n=40 |

3T3-Swiss albino

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|-----------------------------|--|
| Culture Medium | DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO ₃ , w: 1.0 mM sodium pyruvate (Cytion 820300a) |
| Supplements | 10% FBS |
| Dissociation Reagent | Trypsin |
| Doubling time | 18 hours |
| Subculturing | 3-5 x 10 ⁴ cells per well in 25 cm ² flasks, 3-5 x 10 ⁵ cells per well in 75 cm ² flasks |
| Seeding density | 0.5 x 10 ⁴ cells/cm ² |
| Fluid renewal | 2-3 times per week |
| Post-Thaw Recovery | 4-6 weeks |

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Freeze medium (FBS) + 10% DMSO

Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath.
2. Centrifuge at 300 x g for 3 minutes.
3. Resuspend the cells in 10 ml of complete medium.
4. Seed cells into a T25 flask.
5. Incubate at 37°C in 5% CO₂.
6. Monitor cell growth and confluency.
7. Harvest cells when 70-80% confluent.
8. Pass cells to a new flask.

Incubation Atmosphere 37°C, 5% CO₂

Shipping Conditions

Store at -150°C in 196 liquid nitrogen.

Storage Conditions -150°C

Genotype / HLA

Sterility

PCR genotyping for HLA.