

3D4/21 | 305357

General information

Description	3D4/21 is a mouse embryonic fibroblast (MEF) cell line derived from a 12-day-old mouse embryo. It is a derivative of the 3T3 cell line and is characterized by its high proliferation rate and ability to form colonies. 3D4/21 cells are commonly used in research related to cell growth, differentiation, and gene expression. They are also used in the study of viral infections, such as HIV and H1N1. 3D4/21 cells are typically grown in the presence of serum and are maintained in a culture medium containing fetal bovine serum (FBS) and penicillin-streptomycin. 3D4/21 cells are also used in the study of Haemophilus parasuis, a bacterial pathogen that causes disease in pigs.
Organism	Mouse
Tissue	Embryo
Synonyms	IPAM 3D4/21, IPAM-WT

Characteristics

Breed/Subspecies	Mouse
Age	12 days
Gender	Male
Morphology	Embryonic fibroblast
Cell type	Primary cell
Growth properties	Adherent

Identification and documentation

Citation	3D4/21 (Cytion 305357)
Biosafety level	2
NCBI_TaxID	9823
CellosaurusAccession	CVCL_0F14

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Viruses	SV40 (SV40)
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Culture Medium	RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
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Supplements	10% FBS
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Dissociation Reagent	
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Seeding density	$1-3 \times 10^4$ cells/cm ²
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Freeze medium	10% FBS + 10% DMSO
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Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C. Transfer the cells to a centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in fresh medium.
2. Seed cells into a 25 cm² flask containing 10 ml of medium. Incubate at 37°C in 5% CO₂.
3. When cells reach confluence (approx. 70-80%), passage them into a new flask.
4. For passage, trypsinize the cells and resuspend them in medium. Seed into a new flask at a density of $1-3 \times 10^4$ cells/cm².
5. Monitor cell growth and passage when cells reach confluence.
6. For freezing, trypsinize cells and resuspend in freezing medium. Aliquot into cryovials and store at -80°C.
7. For thawing, quickly thaw the vial and dilute the cells into fresh medium.
8. Seed the thawed cells into a new flask and incubate at 37°C in 5% CO₂.

Incubation Atmosphere	37°C, 5% CO ₂
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Shipping
Conditions

Shipping conditions: The product is shipped in a temperature-controlled container at -78°C .

Storage
Conditions

Storage conditions: The product is stored at -150 to -196°C in a temperature-controlled container.

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Sterility

The product is sterile and suitable for PCR. The product is stored in a sterile container. The product is suitable for PCR.