

CLS-354 | 300152

General Information

Description	CLS-354 is a cell line derived from a 51-year-old male patient with a diagnosis of melanoma. The cell line was established by primary explant culture of the tumor tissue. It is a highly proliferative, undifferentiated cell line that grows in suspension culture. The cell line is characterized by its high tumorigenicity and its ability to form xenografts in immunodeficient mice. The cell line is currently maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin (P/S). The cell line is deposited with the DSMZ cell culture collection.
Organism	Human
Tissue	Melanoma
Disease	Melanoma
Synonyms	xF354, xF 354

Characteristics

Age	51 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent, suspension

References and Safety

Citation	CLS-354 (Cytion 300152)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_5971

Genetic Information

Tumorigenic	Yes, in immunodeficient mice
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Product sheet

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Reverse transcriptase	
Products	
CLL	
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 β - mercaptoethanol (Cytion 820300a)
Supplements	FBS 10%
Dissociation Reagent	
Subculturing	Cells are cultured in DMEM supplemented with 10% FBS in T25, 3-5 cm^2 flasks. Media is replaced every 3-4 days. Cells are passaged every 6-7 days.
Seeding density	1×10^4 cells per flask
Fluid renewal	
Post-Thaw Recovery	After thawing, cells are cultured in DMEM supplemented with 10% FBS for 24 hours.
Freeze medium	DMEM supplemented with 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Centrifuge at 300 x g for 5 minutes. Resuspend the cells in pre-warmed culture medium.
2. Seed the cells into a pre-warmed flask containing 10 mL of culture medium. Incubate at 37°C with 5% CO₂.
3. Monitor cell growth and confluency. Once cells reach 70-80% confluency, they can be passaged.
4. Harvest cells by trypsinization. Add 1 mL of trypsin solution to the flask and incubate for 2-3 minutes at 37°C. Add 10 mL of serum-free medium to stop the reaction. Pipette up the cells and centrifuge at 300 x g for 5 minutes.
5. Resuspend the cell pellet in 15 mL of pre-warmed culture medium. Seed into 8 wells of a 96-well plate.
6. Incubate the cells at 37°C with 5% CO₂ for 3-5 days. Monitor cell growth and confluency.
7. Harvest cells by trypsinization. Add 10 mL of trypsin solution to the plate and incubate for 2-3 minutes at 37°C. Add 100 µL of serum-free medium to stop the reaction. Pipette up the cells and centrifuge at 300 x g for 5 minutes.
8. Resuspend the cell pellet in 100 µL of pre-warmed culture medium. Seed into a new 96-well plate.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating No

Freezing Procedure Cells can be frozen in a cryovial containing 100 µL of freezing medium. Store at -80°C.

Shipping Conditions Cells can be shipped at -80°C.

Storage Conditions Cells can be stored at -150°C for 196 weeks.

HLA

Sterility

Cells are provided in a sterile, sealed vial. PCR products are provided in a sterile, sealed vial.

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HLA

A*: '01:01:01, '24:02:01

B*: 08:01:01, 18:01:01

C*: 07:01:01, 12:03:01

DRB1*: 03:01:01, 11:03:01

DQA1*: 05:01:01, 05:05:01

DQB1*: '02:01:01, '03:01:01

DPB1*: '01:01:01, '04:02:01

E: '01:01:01, '01:03