

CLS-439 | 300150

General information

Description	CLS-439 is a cell line derived from a 61-year-old male patient with a primary tumor of the colon. The cell line was established in 1998 and is characterized by its ability to form tumors in nude mice. The cell line is maintained in DMEM/F12 medium supplemented with 10% FBS.
Organism	Human
Tissue	Colon
Disease	Colorectal cancer
Synonyms	CLS439

Cell characteristics

Age	61 years
Gender	Male
Ethnicity	Chinese
Morphology	Epithelial cells
Growth properties	Adherent

Cell line identification

Citation	CLS-439 (Cytion 300150)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_5982

Cell line characteristics

Tumorigenic	Yes, forms tumors in nude mice
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References

Product sheet

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Culture Medium	McCoy's 5a, w: 3.0 g/L NaH_2PO_4 , w: 2.0 mM NaHCO_3 (Cytion 820200a)
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Supplements 10% FBS

Dissociation Reagent	
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Doubling time 35

Subculturing	PBS (3-5 $\times 10^4$ cells) T25, 5-10 $\times 10^4$ cells
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Seeding density 1×10^4 cells

Fluid renewal	2-3 times
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Post-Thaw Recovery 24 hours CO_2 37 $^{\circ}\text{C}$ 5%

Freeze medium	(FBS) + 10% DMSO
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Thawing and Culturing Cells

1. Thaw cells quickly in a water bath at 37 $^{\circ}\text{C}$.
2. Centrifuge cells at 300 x g for 3 minutes.
3. Resuspend cells in 10 ml of complete medium.
4. Seed cells into a T25 flask.
5. Incubate cells for 24 hours.
6. Perform a fluid renewal.
7. Seed cells into a T75 flask.
8. Incubate cells for 24 hours.

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Incubation
Atmosphere

37°C, 5%_{CO2}, humidified

Flask Coating

Non-adherent

Freezing
Procedure

Cells are seeded into 24-well plates and grown to confluence. Media is removed and cells are washed with PBS. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 mL vials and frozen at -78°C.

Shipping
Conditions

Cells are shipped on dry ice at -78°C.

Storage
Conditions

Cells can be stored at -150 to -196 °C for up to 196 weeks.

Genotype

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for endotoxin contamination using the LAL assay. Cells are found to be free of mycoplasma and endotoxin.

HLA

A*: '01:01:01, '11:01:01
B*: 08:01:01
C*: 07:01:01
DRB1*: 03:01:01
DQA1*: 05:01:01
DQB1*: 02:01:01
DPB1*: '04:01:01G, '04:02:01G
E: 01:01:01