

Product sheet

CLS-439 | 300150

General Information

Description	CLS-439 is a cell line established in 1998 from a patient with a 61-year-old male.
Organism	Human
Tissue	Colon
Disease	Colorectal adenocarcinoma
Synonyms	CLS439

Subject Information

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

Identification and Safety

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

Characterization and Testing

Tumorigenic	Yes, in nude mice
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Additional Information

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Culture Medium McCoy's 5a, w: 3.0 g/L $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 0.05 g/L $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$, w: 2.0 mM $\text{Na}_2\text{S}_2\text{O}_8$, w: 2.2 g/L NaHCO_3 (Cytion 820200a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 35 days

Subculturing Cells are harvested by trypsinization and resuspended in PBS (3-5 ml PBS T25, 5-10 ml PBS T75)

Seeding density 1×10^4 cells/cm²

Fluid renewal 2-3 times per week

Post-Thaw Recovery Cells are cultured in 24-well plates at 37°C/5% CO₂

Freeze medium Culture medium + 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath, and transfer the cells to a pre-warmed tube.
2. Add 10 ml of pre-warmed medium to the tube and centrifuge at 300 x g for 3 minutes.
3. Resuspend the cells in 10 ml of pre-warmed medium and seed into a 15 cm² flask.
4. After 24 hours, replace the medium with fresh medium containing 10% FBS.
5. Once cells reach 70-80% confluency, passage the cells into a new flask.
6. Repeat the process until cells are established in a new flask.
7. Once cells are established, they can be used for experiments or stored in liquid nitrogen.
8. For long-term storage, harvest cells and resuspend in freeze medium.

