

Product sheet

SUM149PT | 300609

General Information

Description SUM149PT is a human breast cancer cell line (IBC) derived from a 40-year-old female patient with a 2288delT BRCA1 mutation. The cell line is characterized by its high proliferation rate and is used for studying breast cancer biology and drug response. It is a CD44+/CD24-/Low cell line and is sensitive to IBC treatment.

Organism Human

Tissue Breast

Disease Breast Cancer

Synonyms SUM-149PT, SUM 149PT, SUM149-PT, SUM149, SUM-149, SUM 149, 149 PT, 149PT, BrCL12

Cell Culture

Age 40 years

Gender Female

Morphology Epithelial

Growth properties Adherent

References

Citation SUM149PT (Cytion 300609)

NCBI_TaxID 9606

CellosaurusAccession CVCL_3422

Protein Expression

Protein expression P53

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Cell Line

Culture Medium Ham's F12, w: 1.0 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 1.0 mM $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$, w: 1.1 g/L NaHCO_3 (Cytion 820600a)

Supplements Cytion 820600 10% FBS

Dissociation Reagent Cytion 820600

Subculturing Cells are cultured in Ham's F12 medium supplemented with 10% FBS. For passaging, cells are trypsinized with 0.25% trypsin-EDTA (Cytion 820600) in PBS, washed with PBS, and resuspended in Ham's F12 medium supplemented with 10% FBS. Cells are seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.

Freeze medium Ham's F12 medium supplemented with 10% FBS (Cytion 820600) + 10% DMSO (Cytion 820600) in Ham's F12 medium supplemented with 10% FBS.

Thawing and Culturing Cells

1. Cells are thawed in a 37°C water bath and immediately transferred to a flask containing 10 mL of Ham's F12 medium supplemented with 10% FBS.
2. Cells are allowed to attach to the flask and are then washed with PBS.
3. Cells are trypsinized with 0.25% trypsin-EDTA (Cytion 820600) in PBS and resuspended in Ham's F12 medium supplemented with 10% FBS.
4. Cells are seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.
5. Cells are cultured in Ham's F12 medium supplemented with 10% FBS.
6. Cells are passaged when they reach 70-80% confluency.
7. Cells are trypsinized with 0.25% trypsin-EDTA (Cytion 820600) in PBS and resuspended in Ham's F12 medium supplemented with 10% FBS.
8. Cells are seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.

Incubation Atmosphere 37°C, 5% CO_2 , humidified

Flask Coating Cytion 820600

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Freezing Procedure -78°C

Shipping Conditions -78°C

Storage Conditions -150 to -196

HLA

Sterility