

DMS-114 | 305364

Overview

Description	DMS-114 is a cell line derived from a patient with Small Cell Lung Cancer (SCLC). It is a highly aggressive, neuroendocrine tumor that typically arises in the lungs. The cell line is characterized by its rapid growth and high sensitivity to platinum-based chemotherapy. It is a valuable model for studying SCLC biology and drug response. The cell line is maintained in RPMI 1640 medium supplemented with 10% FBS. It is a good model for studying the effects of TP53 and RB1 mutations on cell growth and differentiation. The cell line is also used to study the effects of SMARCA4 mRNA levels on cell growth and differentiation.
Organism	Human
Tissue	Lung
Disease	Small Cell Lung Cancer (SCLC)
Synonyms	DMS-114, DMS114, DMS-114, DMS114, DMS-114, DMS114

Characteristics

Age	68 years
Gender	Male
Ethnicity	White
Growth properties	Highly aggressive, rapid growth

Genetic Information

Citation	DMS-114 (DMS-114) Cytion 305364
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1174

Additional Information

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**Thawing and
Culturing Cells**

1. **Thawing:** Thaw the vial quickly in a water bath at 37°C. Transfer the cells to a pre-warmed tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in 1 ml of pre-warmed medium.
2. **Seeding:** Seed the cells into a 24-well plate at a density of 150,000 cells per well. Incubate at 37°C with 5% CO₂ for 24 hours.
3. **Media Change:** After 24 hours, remove the medium and replace it with fresh pre-warmed medium.
4. **Confluency:** Monitor the cells daily. Once they reach 80-90% confluency, they are ready for use.
5. **Passaging:** When cells reach confluency, passage them into a new 24-well plate using trypsin-EDTA.
6. **Storage:** Cells can be stored in liquid nitrogen for long-term storage. Thaw them quickly and resuspend in medium.
7. **Characterization:** Perform flow cytometry or PCR to confirm cell identity and purity.
8. **Quality Control:** Regularly check for mycoplasma contamination using PCR or microscopy.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified

Flask Coating

Not required

**Freezing
Procedure**

Cells are frozen in a freezing medium and stored in liquid nitrogen at -78°C.

**Shipping
Conditions**

Cells are shipped in a dry ice container and stored at -78°C.

**Storage
Conditions**

Cells are stored in liquid nitrogen at -150°C for up to 196 weeks.

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Sterility

Cells are tested for mycoplasma contamination using PCR. They are also tested for endotoxin levels. All cells are certified to be free of mycoplasma and endotoxin.