

Product sheet

NCI-H1048 | 305595

General Information

Description
NCI-H1048 is a human small cell lung carcinoma (SCLC) cell line. It is a neuroendocrine carcinoma, characterized by small, round, blue cells with scant cytoplasm and hyperchromatic nuclei. NCI-H1048 is derived from a 53-year-old male patient with a primary tumor in the lung. The cell line is highly tumorigenic and is used for studying the biology of SCLC and for testing anticancer drugs. NCI-H1048 is a TP53 mutant cell line.

Organism Human

Tissue Lung

Disease Small cell lung carcinoma

Metastatic site Lung, lymph nodes

Synonyms H1048, H-1048, NCIH1048

Cell Characteristics

Age 53 years

Gender Male

Ethnicity Caucasian

Morphology Small cell carcinoma

Growth properties High growth rate

References

Citation NCI-H1048 (Cytion 305595)

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1453

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C, and transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed medium in a 150 cm² flask at a density of 1-2 x 10⁶ cells.
3. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C until the cells reach confluence.
4. Harvest the cells by trypsinization, and resuspend them in a pre-warmed medium at 70% confluence.
5. Seed the cells into a 15 cm² flask at a density of 1.5 x 10⁶ cells.

Media

NCI-H1048 requires the following media components:

- 0.005 mg/ml insulin
 - 0.01 mg/ml transferrin
 - 30 ng/ml selenium (selenium supplement)
 - 10 ng/ml hydrocortisone (steroid supplement)
 - 10 ng/ml progesterone (steroid supplement)
 - 2 mg/ml L-ascorbic acid (ascorbic acid supplement, 4.5 mg/ml)
 - 5% fetal bovine serum (FBS)
- The cells require a humidified atmosphere of 5-30% CO₂ in a 3 liter flask, and a humidified atmosphere of 5-10% CO₂ in a 150 cm² flask.
 - The cells require a humidified atmosphere of 5-10% CO₂ in a 150 cm² flask, and a humidified atmosphere of 5-10% CO₂ in a T25 flask.
 - The cells require a humidified atmosphere of 5-10% CO₂ in a 150 cm² flask, and a humidified atmosphere of 5-10% CO₂ in a T25 flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Shipping Conditions Cryogenic storage at -78°C

Storage Conditions Cryogenic storage at -150°C for 196 days

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Sterility

PCR