

Product sheet

NCI-H2122 | 305600

General Information

Description
NCI-H2122 is a cell line derived from a patient with non-small cell lung carcinoma (NSCLC). It is characterized by its ability to grow in soft agar and its sensitivity to MAPK inhibitors. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin.

Organism Human

Tissue Lung

Disease Non-small cell lung carcinoma

Metastatic site Lung

Synonyms H2122, H-2122, H-2122, NCIH2122

Cell Characteristics

Age 46 days

Gender Male

Ethnicity Caucasian

Morphology Epithelial cells, adherent

Growth properties Soft agar dependent

Identification

Citation NCI-H2122 (ATCC CCL-212) | 305600

Biosafety level 1

NCBI_TaxID 9606

CellSaurusAccession CVCL_1531

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XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Mutational profile XXXXXXXX KRAS, p.Gly12Cys (c.34G>T) XXXXXXXX XXXXXXXXXXXX XXXXXXXX XXXXXXXX TP53 p.Gln16Leu (c.47A>T) XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

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Culture Medium RPMI 1640 2.0 XXXXXXX XXXXXXX XXXXXXXXXXXX XXXXXXX 2.0 %/XXXX NaHCO3 (XXXX XXXXXXX 820700a XXX XXXXXXXXXXX)

Supplements XXX XXXXXXX XXXXXXX 10% XXX XXX FBS

Dissociation Reagent XXXXXXXX

Subculturing XXX XXXXXXX XXXXXXX XXXXXXX XXX XXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX PBS XXXXXXX XXXXXXX XXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXX XXXXXXX

Split ratio XXXXXXX XXXXXXXXXXXX XXXXXXX XXXXXXX XXX 1:3 1:4 XXX XXXXXXXXXXXX XXXXXXXXXXXX

Fluid renewal 2 XXX 3 XXXXXXX XXX XXXXXXXXXXXX

Freeze medium XXXXXXX XXXXXXX XXXXXXXXXXXX XXXXXXX XXX XXXXXXX (XXXX XXX XXX FBS) + 10% DMSO XXX XXXXXXX XXX XXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed T75 flask containing 10 mL of complete medium.
2. Allow the cells to attach to the flask for 24 hours. After 24 hours, the cells should be visible on the flask.
3. After 24 hours, the cells should be visible on the flask. Add 37 mL of complete medium to the flask.
4. After 24 hours, the cells should be visible on the flask. Add 70% of complete medium to the flask.
5. After 24 hours, the cells should be visible on the flask. Add 15 mL of complete medium to the flask.
6. After 24 hours, the cells should be visible on the flask. Add 300 x 3 mL of complete medium to the flask.
7. After 24 hours, the cells should be visible on the flask. Add 10 mL of complete medium to the flask.
8. After 24 hours, the cells should be visible on the flask. Add 10 mL of complete medium to the flask.

Incubation Atmosphere 37 °C, 5% CO₂

Flask Coating No

Freezing Procedure Seed cells into a cryovial containing 1 mL of freezing medium. Freeze the vial at -80°C.

Shipping Conditions Store at -80°C.

Storage Conditions Store at -150 to -196 °C.

Genetic Background / HLA

Sterility The cells are free of mycoplasma contamination. PCR testing is performed on a regular basis.