

NCI-H441 | 305219

General information

Description

NCI-H441 is a cell line derived from a 33-year-old male patient with metastatic melanoma. The cell line was established in 1982 and is characterized by its ability to grow in suspension. It is a highly tumorigenic cell line that has been used in various preclinical studies. The cell line is maintained in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cell line is highly sensitive to various chemotherapeutic agents, including cisplatin, paclitaxel, and irinotecan.

Organism Human

Tissue Melanoma

Disease Metastatic melanoma

Metastatic site Lung, liver, brain

Synonyms H441, H-441, H-441, NCI-H441-4, NCI-441, NCI-441, NCIH441

Characteristics

Age 33 years

Gender Male

Ethnicity Caucasian

Cell type Epithelial

Growth properties Suspension

References and safety

Citation NCI-H441 (ATCC CRL-1595) | 305219

Biosafety level 1

NCBI_TaxID 9606

Product sheet

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CellosaurusAccession CVCL_1561

XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Karyotype XXXXX XX XXXXXXX NCI-H441 XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX XXX XXXX XXX XXXXXXXXXXXXXXXXXXXX XXXXXXX 52 XXXXXXXXXXXXXXXXXXXX XXX XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXX

Culture Medium RPMI 1640 2.0 XXXXX XXXXXXX XXXXXXXXXXXX XXXXXXX 2.0 XX/XXX NaHCO3 (XXXX XXXXXXX 820700a XX XXXXXXXXXXXX)

Supplements XX XXXXXXX XXXXXXX 10 XX XX FBS

Dissociation Reagent XXXXXXX

Doubling time 58 XXXXX

Subculturing XX XXXXXXX XXXXXXX XXXXXXX XX XXXXXXX XXXXXXXXXXXX XXXXXXX XXXXXXXXXXXX PBS XXXXX XXXXXXX XXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX

Split ratio 1:3 XXX 1:8

Fluid renewal 2 XXX 3 XXXXX XX XXXXXXXXXXXX

Freeze medium XXXXXXX XXXXXXX XXXXXXXXXXXXXXXXXXXX XXXXXXX XXX XXX XXXXX (XXXX XX XXX FBS) + 10% DMSO XX XXXX XXXXXXXXXXX XXX XXXXXXX XXXXXXX XXX XXXXXXXXXXXXXXXXXXXX

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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 medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
3. Seed the cells into a 25 cm² flask containing 10 ml of pre-warmed medium.
4. Incubate the cells at 37°C in a humidified atmosphere of 5% CO₂.
5. Monitor the cells for attachment and growth. Change the medium when the cells reach 70% confluency.
6. Harvest the cells by trypsinization. Seed the cells into a 25 cm² flask containing 10 ml of pre-warmed medium.
7. Incubate the cells at 37°C in a humidified atmosphere of 5% CO₂.
8. Monitor the cells for attachment and growth. Change the medium when the cells reach 70% confluency.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating None

Freezing Procedure Harvest cells by trypsinization. Resuspend cells in 1 ml of freezing medium. Freeze cells in a controlled rate freezer at -1°C/min to -150°C. Store cells at -196°C in liquid nitrogen.

Shipping Conditions Cells should be shipped at -150°C to -196°C in liquid nitrogen.

Storage Conditions Cells should be stored at -150°C to -196°C in liquid nitrogen.

NCI-H441 / HLA

Sterility Cells are provided in a sterile, cryoprotected medium. The cells are free of mycoplasma contamination (PCR).

XXXXXXXX NCI-H441 | 305219

XXXXXXXX XXXXXXXXXXXX STRAmelogenin: x

CSF1PO: 11

D13S317: 9

D16S539: 9

D5S818: 11

D7S820: 10

TH01: 9,3

TPOX: 8,1

vWA: 17

D3S1358: 18

D21S11: 32,2

D18S51: 18

Penta E: 12

Penta D: 10

D8S1179: 8

FGA: 24