

NCI-H2009 | 305283

General information

Description	NCI-H2009 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is a highly tumorigenic cell line that grows as a monolayer in tissue culture. NCI-H2009 is a highly tumorigenic cell line that grows as a monolayer in tissue culture. NCI-H2009 is a highly tumorigenic cell line that grows as a monolayer in tissue culture.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung cancer
Metastatic site	Adipose tissue
Synonyms	H2009, H-2009, NCIH2009

Cell characteristics

Age	68 years
Gender	Male
Ethnicity	White
Morphology	Epithelial
Growth properties	Adherent

Cell line identification

Citation	NCI-H2009 (Cytion 305283)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1514

Product sheet

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NCI-H2009 - EBV-transformed

Viruses EBV-transformed B-lymphocytes (EBV)

Mutational profile B2M, p.Met1Val (c.1A>G), B2M, p.Gln28Ter (c.82C>T), KRAS, p.Gly12Ala (c.228C>T) (C228T); TP53, p.Arg273Leu (c.818G>T),

NCI-H2009

Culture Medium HITES

NCI-H2009 cells are maintained in HITES medium, supplemented with:

- 0.005 µg/ml Hydrocortisone
- 0.01 µg/ml Dexamethasone
- 30 ng/ml Insulin (Sigma)
- 10 ng/ml Transferrin (Sigma)
- 10 ng/ml Selenium (Sigma)
- 2 mM L-Glutamine (Sigma) (4.5 mM)
- 5% FBS (Sigma)

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Dissociation Reagent Trypsin

Subculturing Cells are seeded into T25 flasks in HITES medium supplemented with 5% FBS. Once cells reach confluence, they are trypsinized and seeded into new flasks at a split ratio of 1:3 to 1:6.

Split ratio 1:3 to 1:6

Fluid renewal 2 to 3 times per week

Freeze medium HITES medium supplemented with 10% DMSO and 10% FBS

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Thawing and
Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 15 µl of medium.
3. Seed the cells into a 96-well plate (15 µl per well). Incubate the plate at 37°C for 24 hours.
4. After 24 hours, add 85 µl of medium to each well. The final volume should be 100 µl.
5. Incubate the cells for 72 hours. Harvest the cells and analyze them.
6. Seed the cells into a 96-well plate (15 µl per well). Incubate the plate at 37°C for 24 hours.
7. After 24 hours, add 85 µl of medium to each well. The final volume should be 100 µl.
8. Incubate the cells for 72 hours. Harvest the cells and analyze them.

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

None

Shipping
Conditions

Cells are shipped in a dry ice container. The temperature should be maintained at -78°C.

Storage
Conditions

Cells should be stored at -150°C in liquid nitrogen. The storage time should be less than 196 hours.

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Sterility

Cells are tested for sterility using PCR. The results show that the cells are free of contamination.

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