

NCI-H2009 | 305283

General Information

Description NCI-H2009 is a cell line derived from a patient with non-small cell lung carcinoma (NSCLC). It is a highly tumorigenic cell line that grows in suspension and is characterized by its ability to form colonies in soft agar. NCI-H2009 is a highly tumorigenic cell line that grows in suspension and is characterized by its ability to form colonies in soft agar. NCI-H2009 is a highly tumorigenic cell line that grows in suspension and is characterized by its ability to form colonies in soft agar.

Organism Human

Tissue Lung

Disease Non-small cell lung carcinoma

Metastatic site Lung

Synonyms H2009, H-2009, NCIH2009

Cell Line Characteristics

Age 68 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties Suspension

Genetic Information

Citation NCI-H2009 (ATCC CCL-221) | Cytion 305283

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1514

NCI-H2009 | 305283

Cell Line Characteristics

Viruses Epstein-Barr virus (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),

Media

Culture Medium **HITES**

DMEM, 10% FBS, 100 U/ml penicillin, 100 U/ml streptomycin, 100 U/ml nystatin

- 0.005 U/ml hydrocortisone
- 0.01 U/ml dexamethasone
- 30 U/ml insulin (human recombinant)
- 10 U/ml transferrin (human recombinant)
- 10 U/ml selenium (human recombinant)
- 2 mM L-threonine (L-threonine 4.5 mM)
- 5% fetal bovine serum (FBS)

Supplements 5% FBS, 0.005 U/ml hydrocortisone, 0.01 U/ml dexamethasone, 30 U/ml insulin, 10 U/ml transferrin, 10 U/ml selenium

Dissociation Reagent Trypsin

Subculturing Cells are cultured in DMEM supplemented with 10% FBS, 100 U/ml penicillin, 100 U/ml streptomycin, 100 U/ml nystatin, 10 U/ml insulin, 10 U/ml transferrin, 10 U/ml selenium, 0.005 U/ml hydrocortisone, 0.01 U/ml dexamethasone.

Split ratio 1:3 or 1:6

Fluid renewal 2-3 times per week

Freeze medium DMEM, 10% FBS, 100 U/ml penicillin, 100 U/ml streptomycin, 100 U/ml nystatin, 10 U/ml insulin, 10 U/ml transferrin, 10 U/ml selenium, 0.005 U/ml hydrocortisone, 0.01 U/ml dexamethasone, 10% DMSO

NCI-H2009 | 305283

Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. 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 1-1.5 x 10⁶ cells per flask. Incubate at 37°C in 5% CO₂.
3. Once the cells have reached confluence, passage them into a 375 cm² flask at a density of 1-1.5 x 10⁶ cells per flask.
4. Seed the cells into a 375 cm² flask at a density of 1-1.5 x 10⁶ cells per flask. Incubate at 37°C in 5% CO₂.
5. Once the cells have reached confluence, passage them into a 375 cm² flask at a density of 1-1.5 x 10⁶ cells per flask.
6. Seed the cells into a 375 cm² flask at a density of 1-1.5 x 10⁶ cells per flask. Incubate at 37°C in 5% CO₂.
7. Once the cells have reached confluence, passage them into a 375 cm² flask at a density of 1-1.5 x 10⁶ cells per flask.
8. Seed the cells into a 375 cm² flask at a density of 1-1.5 x 10⁶ cells per flask. Incubate at 37°C in 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Shipping Conditions Dry ice, -78°C

Storage Conditions Dry ice, -150 to 196 K

Genotype / HLA

Sterility Sterile, PCR negative