

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 in soft agar and is capable of forming xenografts in immunodeficient mice. NCI-H2009 is a highly tumorigenic cell line that grows in soft agar and is capable of forming xenografts in immunodeficient mice. NCI-H2009 is a highly tumorigenic cell line that grows in soft agar and is capable of forming xenografts in immunodeficient mice.

Organism Human

Tissue Lung

Disease Non-small cell lung cancer

Metastatic site Lung

Synonyms H2009, H-2009, NCIH2009

Cell characteristics

Age 68 years

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

Identification

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

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_1514

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Cell Line

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 DMEM:Ham's F12 (1:1), w: 3.1 g/L L-glutamine, w: 2.5 mM L-ascorbic acid, w: 15 mM HEPES, w: 0.5 mM beta-mercaptoethanol, w: 1.2 g/L NaHCO3 820400a)

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

Dissociation Reagent Trypsin

Subculturing Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 5% FBS, 0.005 mg/ml hydrocortisone, 0.01 mg/ml dexamethasone, 30 ng/ml insulin, 10 ng/ml transferrin, 10 ng/ml selenium. Cells are passaged using Trypsin.

Split ratio 1:3 or 1:6

Fluid renewal 2-3 times per week

Freeze medium DMEM:Ham's F12 (1:1) supplemented with 10% FBS + 10% DMSO

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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. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 ml of pre-warmed medium.
3. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium. The final concentration should be approximately 1.5 x 10⁵ cells/ml.
4. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C. The cells should reach 70% confluency within 7-10 days.
5. Harvest the cells by trypsinization. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium. The final concentration should be approximately 1.5 x 10⁵ cells/ml.
6. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C. The cells should reach 70% confluency within 7-10 days.
7. Harvest the cells by trypsinization. Seed the cells into a T25 flask containing 10 ml of pre-warmed medium. The final concentration should be approximately 1.5 x 10⁵ cells/ml.
8. Incubate the cells in a humidified atmosphere of 5% CO₂ at 37°C. The cells should reach 70% confluency within 7-10 days.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Shipping Conditions Dry ice, -78°C

Storage Conditions -150°C, 196 K

Genotype / HLA

Sterility Sterility testing performed by PCR