

Calu-3 | 305032

General Information

Description Calu-3 is a human lung adenocarcinoma cell line established in 1975. It is characterized by high tumorigenicity and is used for studying lung cancer biology and drug response. The cell line is derived from a 55-year-old male patient with a primary lung adenocarcinoma. Calu-3 cells are highly proliferative and form soft agar colonies. They are sensitive to cisplatin and paclitaxel. Calu-3 cells express various markers, including cytokeratins, and are used for studying lung cancer progression and treatment.

Organism Human

Tissue Lung

Disease Lung adenocarcinoma

Metastatic site Lung, lymph nodes, bone

Synonyms CaLu-3, CALU-3, Calu 3, Calu3, CALU3

Characteristics

Age 25 years

Gender Male

Morphology Epithelial

Growth properties Adherent

Identification

Citation Calu-3 (ATCC CCL-221) | Cytion 305032

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0609

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Thawing and Culturing Cells

1. Thaw the cells in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a flask containing 10 mL of medium. Incubate at 37°C with 5% CO₂.
3. Monitor cell growth and confluency. Once cells reach 70-80% confluency, they are ready for passage.
4. Harvest cells by trypsinization. Add 1 mL of trypsin to the flask and incubate for 5 minutes.
5. Centrifuge the cells at 300 x g for 5 minutes. Resuspend the pellet in 1 mL of medium.
6. Seed the cells into a new flask containing 10 mL of medium. Incubate at 37°C with 5% CO₂.
7. Repeat the process for subsequent passages.
8. Store cells in liquid nitrogen for long-term storage.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating Non-adherent

Freezing Procedure Harvest cells and resuspend in freezing medium. Store in liquid nitrogen at -78°C.

Shipping Conditions Store at -78°C during shipping.

Storage Conditions Store at -150°C for up to 196 days.

Genotype / HLA

Sterility Cells are provided in a sterile, virus-free medium. PCR screening is performed to ensure sterility.