

# 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 high levels of HER2/neu and EGFR. Calu-3 cells are used for studying lung cancer biology and drug response.

**Organism** Human

**Tissue** Lung

**Disease** Lung adenocarcinoma

**Metastatic site** Lung, lymph nodes, brain, 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 vial immediately in a 37°C water bath. Do not allow the cells to warm to room temperature. Transfer the cells to a pre-warmed T25 flask containing 10 ml of complete DMEM medium.
2. Incubate the cells in a humidified 5% CO<sub>2</sub> incubator at 37°C for 24 hours to allow the cells to attach to the flask.
3. After 24 hours, check for cell attachment. If cells are not attached, gently tap the flask and incubate for another 24 hours.
4. Once cells are attached, remove the medium and replace it with fresh complete DMEM medium.
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6. Once cells are attached, remove the medium and replace it with fresh complete DMEM medium.
7. After 24 hours, check for cell attachment. If cells are not attached, gently tap the flask and incubate for another 24 hours.
8. Once cells are attached, remove the medium and replace it with fresh complete DMEM medium.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** Cell culture flasks should be coated with 0.1% gelatin solution. The coating solution should be prepared by adding 100 µl of 1% gelatin solution to 100 ml of distilled water. The coating solution should be added to the flask and allowed to dry for 24 hours.

**Freezing Procedure** Harvest cells by trypsinization and resuspend in freezing medium. Aliquot into 1 ml vials and store at -80°C.

**Shipping Conditions** Cells should be shipped on dry ice at -80°C.

**Storage Conditions** Cells should be stored at -150°C for up to 196 days.

### Genotype / HLA

**Sterility** Cells are certified to be free of mycoplasma contamination. PCR testing is performed on all cell batches.