

Product sheet

Calu-1 | 300141

General Information

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|------------------------|--|
| Description | Calu-1 is a cell line derived from a patient with non-small cell lung cancer (NSCLC). It is a highly metastatic cell line that grows in suspension and adherent conditions. It is characterized by its ability to form colonies in soft agar and its high tumorigenicity in nude mice. |
| Organism | Human |
| Tissue | Lung |
| Disease | Non-small cell lung cancer |
| Metastatic site | Brain, Liver, Lung, Bone |
| Synonyms | CaLu-1, CALU-1, Calu.1, CALU 1, Calu 1, CALU1, Calu1 |

Cell Characteristics

| | |
|--------------------------|-------------------|
| Age | 47 years |
| Gender | Male |
| Morphology | Epithelial |
| Cell type | Adherent |
| Growth properties | Highly metastatic |

Identification

| | |
|-----------------------------|---------------------------------------|
| Citation | Calu-1 (ATCC CCL-221) Cytion 300141 |
| Biosafety level | 1 |
| NCBI_TaxID | 9606 |
| CellosaurusAccession | CVCL_0608 |

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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. Immediately transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed T75 flask containing 150 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach confluence.
3. Once cells are confluent, passage them into a T25 flask containing 50 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach confluence.
4. Seed the cells into a T25 flask containing 50 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach 70% confluence.
5. Seed the cells into a T25 flask containing 50 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach 15 x 10⁶ cells.
6. Seed the cells into a T25 flask containing 50 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach 300 x 10⁶ cells.
7. Seed the cells into a T25 flask containing 50 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach 10 x 10⁶ cells.
8. Seed the cells into a T25 flask containing 50 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach 10 x 10⁶ cells.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium

Freezing Procedure Seed cells into a T25 flask containing 50 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂ until cells reach 78°C.

Shipping Conditions Store cells at -78°C.

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

Genotype / HLA

Sterility The cells are free of mycoplasmas and PCR detectable viruses.

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HLA

A*: '26:01:01, '29:02:01

B*: 15:01:01, 44:03:01

C*: 03:04:01,

DRB1*: 07:01:01, 14:04:01

DQA1*: '01:04:02, '02:01:01

DQB1*: '02:02:01, '05:03:01

DPB1*: 04:01:01, 11:01:01

E: '01:01:01, '01:03