

Calu-1 | 300141

General information

Description	Calu-1 is a human non-small cell lung carcinoma (NSCLC) cell line. It is derived from a 47-year-old male patient with a primary tumor in the right lung. The cell line is characterized by its high growth rate and its ability to form colonies in soft agar. It is a good model for studying the biology of NSCLC and for testing new drugs.
Organism	Human
Tissue	Lung
Disease	Non-small cell lung carcinoma
Metastatic site	Brain, bone, lymph nodes, liver, lung, ovary, pancreas, prostate, skin, stomach, testis, thyroid, uterus, and various other sites.
Synonyms	CaLu-1, CALU-1, Calu.1, CALU 1, Calu 1, CALU1, Calu1

Characteristics

Age	47 years
Gender	Male
Morphology	Epithelial cells
Cell type	Non-small cell lung carcinoma
Growth properties	High growth rate

Additional information

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

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Cell Line: Calu-1

Protein expression	P53
Antigen expression	A, Rh+, HLA A10, A11, B15, Bw35
Isoenzymes	Me-2, 1-2, PGM3, 1, PGM1, 1-2, ES-D, 1, AK-1, 1, GLO-1, 1-2, G6PD, B, 0.0359
Oncogenes	K-ras
Karyotype	2S 14.2%. 62.

Cell Line: Calu-1

Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Cytion 820100a)
Supplements	10% FBS 1% NEAA
Dissociation Reagent	
Subculturing	PBS T25, 3-5' PBS, 3
Seeding density	1 x 10 ⁴ 90% 4
Fluid renewal	2 3
Post-Thaw Recovery	4
Freeze medium	(FBS) + 10% DMSO

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**Thawing and
Culturing Cells**

1. 将细胞冻存管放入37°C水浴中快速解冻，离心（1500g，5min），弃去上清液，将细胞重悬于完全培养基中。
2. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
3. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
4. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
5. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
6. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
7. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。
8. 将细胞接种到含有完全培养基的培养瓶中，在37°C、5% CO₂条件下培养24-48小时，使细胞贴壁。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无涂层

**Freezing
Procedure**

将细胞悬液与冻存液按1:1比例混合，分装到冻存管中，在-80°C条件下冻存。

**Shipping
Conditions**

将细胞冻存管放入干冰中，在-78°C条件下运输。

**Storage
Conditions**

将细胞冻存管放入-150°C液氮中，可长期保存。

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Sterility

细胞冻存管经过严格的灭菌处理，确保无菌。PCR产物经过严格的灭菌处理，确保无菌。

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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