

LNCaP | 300265

General information

Description	LNCaP, is a cell line derived from a metastatic site of a patient with prostate adenocarcinoma. It is a highly tumorigenic, androgen-independent cell line that grows in the presence of dexamethasone. LNCaP cells are characterized by their ability to form neuroendocrine-like structures and their resistance to androgen deprivation therapy. LNCaP cells are commonly used in research to study the biology of prostate cancer and the effects of androgen deprivation therapy.
Organism	Human
Tissue	Prostate
Disease	Prostate adenocarcinoma
Metastatic site	Prostate, lymph node, bone
Synonyms	LNCA, LNCaP, Ln-Cap, LNCaP (ATCC CRL-2280), LNCaP (DSMZ ACC-100)

Characteristics

Age	50 years
Gender	Male
Ethnicity	White
Morphology	Epithelial cells
Growth properties	Adherent, androgen-independent

References and safety

Citation	LNCaP (ATCC CRL-2280) Cytion 300265
Biosafety level	1
NCBI_TaxID	9606

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed medium in a 150 cm² flask at a density of 1.5 x 10⁶ cells.
3. Incubate the cells in a humidified 5% CO₂ atmosphere at 37°C until they reach 70-80% confluency.
4. Harvest the cells by trypsinization and resuspend in a volume of 10 ml.
5. Seed the cells into a 150 cm² flask at a density of 1.5 x 10⁶ cells.
6. Incubate the cells in a humidified 5% CO₂ atmosphere at 37°C until they reach 70-80% confluency.
7. Harvest the cells by trypsinization and resuspend in a volume of 10 ml.
8. Seed the cells into a 150 cm² flask at a density of 1.5 x 10⁶ cells.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Harvest cells by trypsinization and resuspend in a volume of 10 ml. Seed into a 150 cm² flask at a density of 1.5 x 10⁶ cells. Incubate in a humidified 5% CO₂ atmosphere at 37°C until they reach 70-80% confluency.

Shipping Conditions Harvest cells by trypsinization and resuspend in a volume of 10 ml. Seed into a 150 cm² flask at a density of 1.5 x 10⁶ cells. Incubate in a humidified 5% CO₂ atmosphere at 37°C until they reach 70-80% confluency.

Storage Conditions Harvest cells by trypsinization and resuspend in a volume of 10 ml. Seed into a 150 cm² flask at a density of 1.5 x 10⁶ cells. Incubate in a humidified 5% CO₂ atmosphere at 37°C until they reach 70-80% confluency.

HEK293T / HEK293T / HLA

Sterility HEK293T cells are tested for mycoplasma contamination using PCR. HEK293T cells are tested for mycoplasma contamination using PCR. HEK293T cells are tested for mycoplasma contamination using PCR.

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██████ HLA

- A***: '01:01:01, '02:01:01
- B***: 08:01:01, 37:01:01
- C***: '06:02:01, '07:01:01
- DRB1***: '03:01:01, '10:01:01
- DQA1***: '01:05:01, '05:01:01
- DQB1***: '02:01:01, '05:01:01
- DPB1***: '02:01:02G, '04:02:01G
- E**: 01:01:01