

## LNCaP | 300265

### General information

**Description** LNCaP, is a cell line derived from a primary tumor of the prostate gland. It is a highly metastatic, androgen-dependent cell line. LNCaP cells are characterized by their ability to form large, invasive, and necrotic nodules in the lungs. The cell line is derived from a patient with advanced prostate cancer and is maintained in the presence of androgens. LNCaP cells are highly sensitive to androgen deprivation therapy (ADT) and are used as a model for studying the effects of ADT on prostate cancer cells. LNCaP cells are also used in the study of the role of androgens in prostate cancer progression and in the development of novel therapies for prostate cancer.

**Organism** Human

**Tissue** Prostate

**Disease** Prostate cancer

**Metastatic site** Lung, Bone, Liver, Brain

**Synonyms** LNCAP, LNCap, Ln-Cap, Prostate Cancer Cell Line

### Characteristics

**Age** 50 years

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Epithelial

**Growth properties** Adherent, Androgen-dependent

### References and safety

**Citation** LNCaP (ATCC CRL-2037) Cytion 300265

**Biosafety level** 1

**NCBI\_TaxID** 9606



**HEK293T LNCaP | 300265**

**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 cm<sup>2</sup> flask. The medium should be pre-warmed to 37°C.
3. Incubate the cells in a humidified CO<sub>2</sub> incubator at 37°C and 5% CO<sub>2</sub>.
4. Once the cells have reached 70% confluency, passage them into a new flask.
5. Seed the cells into a 15 cm<sup>2</sup> flask with 8 ml of medium.
6. Seed the cells into a 300 x g flask with 3 ml of medium. The medium should be pre-warmed to 37°C.
7. Seed the cells into a 10 cm<sup>2</sup> flask with 10 ml of medium. The medium should be pre-warmed to 37°C.
8. Seed the cells into a 10 cm<sup>2</sup> flask with 10 ml of medium. The medium should be pre-warmed to 37°C.

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

**Flask Coating** None

**Freezing Procedure** Harvest cells into a 15 ml centrifuge tube. Pellet cells by centrifugation at 300 x g for 5 minutes. Wash the pellet with PBS. Resuspend the pellet in 1 ml of freezing medium. Aliquot into 1 ml vials. Store at -80°C.

**Shipping Conditions** Store at -80°C.

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

**HEK293T / HEK293T / HLA**

**Sterility** The cells are free of mycoplasma contamination. PCR screening for mycoplasma is performed. The cells are free of mycoplasma contamination.

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- 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