

Product sheet

C4-2 | 305752

General Information

Description C4-2 is a cell line derived from a patient with prostate cancer. It is a highly metastatic cell line that grows in primary culture and in xenografts. C4-2 cells are characterized by their ability to form large, invasive tumors in nude mice. The cell line is maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. C4-2 cells are highly sensitive to androgen deprivation therapy (ADT), which is used to study the role of androgens in prostate cancer progression. C4-2 cells are also used to study the role of androgens in the regulation of gene expression and protein synthesis in prostate cancer cells.

Organism Human

Tissue Prostate

Disease Prostate Cancer

Synonyms LNCaP-C4-2, LNCaP C4-2, C4-2, C42, Sp 2817

Cell Culture

Age 50 days

Gender Male

Ethnicity Caucasian

Morphology Epithelial

Growth properties Adherent

Characterization

Citation C4-2 (ATCC CCL-222) | Cytion 305752

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_4782

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Cell Line

Mutational profile AR, p.Thr878Ala (c.2632A>G), MEN1, p.Tyr318Ter (c.954T>G) (p.Tyr313Ter, c.939T>C), p.Arg639Ter (c.1915C>T), PTEN, p.Lys6Argfs*4 (c.17_18delAA),

Characteristics

Seeding density 2 - 3 x 10⁴ cells/cm²

Fluid renewal 2 - 3 times per week

Freeze medium RPMI 1640 medium, 10% FBS + 10% DMSO

Thawing and Culturing Cells

- 1. Thaw cells rapidly in a 37°C water bath.
- 2. Dilute cells into pre-warmed medium.
- 3. Seed cells into a T25 flask.
- 4. Allow cells to attach and recover.
- 5. Change medium after 24 hours.
- 6. Split cells when they reach 70% confluency.
- 7. Seed cells into a T75 flask.
- 8. Continue to culture cells in a 37°C incubator.

Incubation Atmosphere 37°C, 5% CO₂

Shipping Conditions Cells should be shipped at 4°C.

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Storage Conditions XXXXXX XXXXX XXXXX, XX XXXXXX XX XXXXXXXXXXXXXXX XXXXXX XXXXXX XXXXX XX XXX XXXXXXXXXXXXXXX XX 0-150 XX 196 XXXXXX XXXXXXX. XXXXXX XXXXXX

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Sterility XXXXXX XXXXXXXXXXXXXXX XXXXX XXXXXXXXXXX XXXXXXX PCR XXXXXXX XXXXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX.
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