

Product sheet

VCaP | 300631

VCaP

Description VCaP (Vertebral-Cancer of the Prostate) is a cell line derived from a patient with metastatic prostate cancer. It is characterized by a TMPRSS2-ERG fusion and is used for studying prostate cancer biology and drug response.

Organism Human

Tissue Prostate

Disease Prostate Cancer

Metastatic site Bone, Lymph Node

Synonyms VCAP, Vcap, VCaP

VCaP

Age 59 years

Gender Male

Ethnicity Caucasian

Growth properties Adherent

VCaP

Citation VCaP (ATCC CCL-2235) Cytion 300631

Biosafety level VCaP is classified as Biosafety Level 1 (BSL-1). It is not a pathogen and does not require special containment.

NCBI_TaxID 9606

CellosaurusAccession CVCL_2235

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Antigen expression	P53, p18, p16, p14, p15, p17, Rb
Tumorigenic	Yes, SCID
Viruses	Herpesvirus Bxv-1

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Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM Sodium Pyruvate, w: 1.2 g/L NaHCO3 820400a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Doubling time	5-6 days
Subculturing	1:3 to 1:5 in DMEM:Ham's F12 (1:1) + 10% FBS, or 1:3 to 1:5 in DMEM:Ham's F12 (1:1) + 10% FBS + 10% DMSO
Seeding density	$4-8 \times 10^4$ cells/cm ²
Freeze medium	DMEM:Ham's F12 (1:1) + 10% FBS + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial quickly in a water bath at 37°C. Do not shake the vial. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 µl of medium.
3. Seed the cells into a 96-well plate (15 µl per well). Incubate at 37°C with 5% CO₂.
4. After 24 hours, the cells should be visible. Replace the medium with fresh medium.
5. After 48 hours, the cells should be confluent. Harvest the cells for analysis.
6. For long-term storage, resuspend the cells in 100 µl of freezing medium and store at -150°C.
7. Thaw the cells quickly in a water bath at 37°C. Do not shake the vial.
8. Seed the cells into a pre-warmed medium and incubate at 37°C with 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

Freezing Procedure Resuspend cells in 100 µl of freezing medium and store at -150°C.

Shipping Conditions Store at -150°C. Ship on dry ice.

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

VCaP / HLA

Sterility The cells are free of mycoplasmas and other contaminants. PCR confirmed.