

## PROSTATE EPITHELIAL CELLS

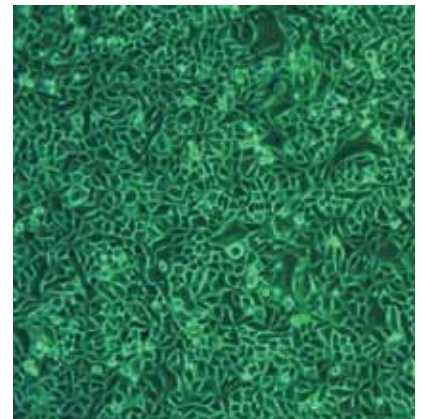
ATCC® Normal Human Prostate Epithelial Cells, when grown in Prostate Epithelial Cell Basal Medium supplemented with Prostate Epithelial Cell Growth Kit components, provides an ideal cell system for propagation in serum-free conditions.



Each lot of ATCC Normal Human Primary Prostate Epithelial Cells is:

- Cryopreserved in the second passage to ensure the highest viability and plating efficiency
- Performance tested together with ATCC® Primary Cell Solutions™ media, kit supplements and reagents to guarantee optimum reliability
- Thoroughly tested for sample purity as part of the ATCC commitment to quality.

Applications for use might include research related to the hormonal regulation of the prostate, regulation and control of the secretory function of prostate cells, and as a control for the study of prostate cancer.



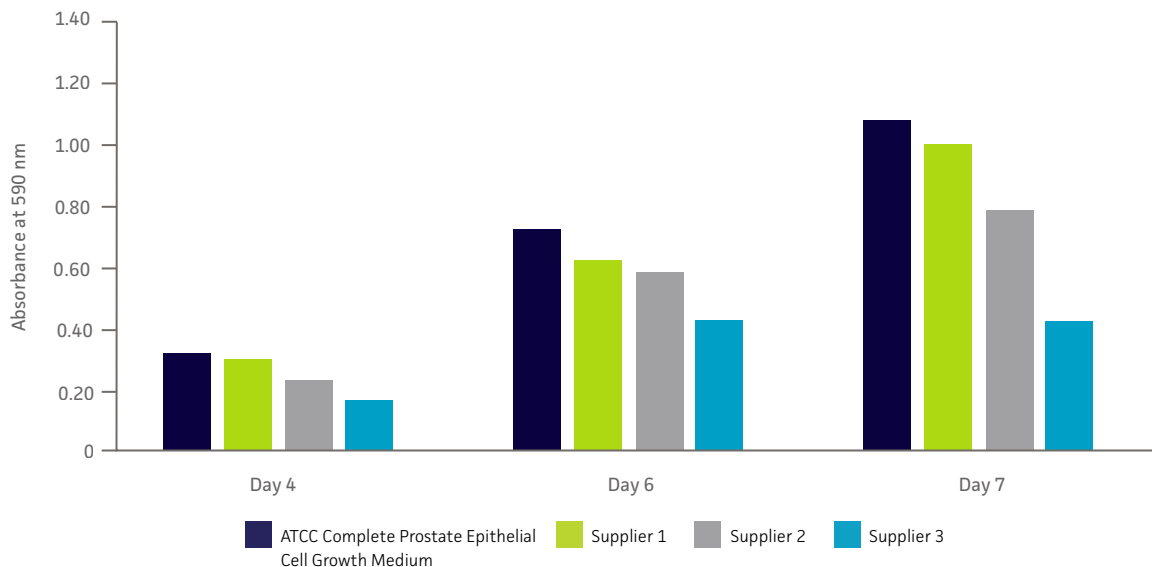
### OPTIMIZED GROWTH MEDIUM MAKES A DIFFERENCE

Primary prostate epithelial cells are effectively supported by the cell-specific ATCC Primary Cell Solutions system consisting of Prostate Epithelial Cell Basal Medium supplemented with the Prostate Epithelial Cell Growth Kit. This unique formulation is designed to produce cultures with:

- Functional expression of relevant biomarkers
- Superior growth and proliferation
- Normal morphology

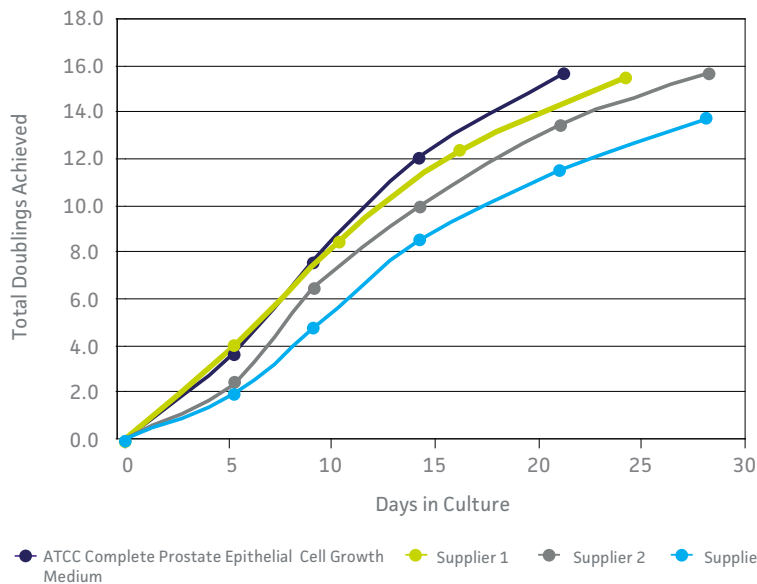
Use of this complete system removes the need for additional components such as feeder layers, extracellular matrix proteins or other substrates.

## Growth of ATCC Primary Cell Solutions Primary Human Prostate Epithelial Cells in Different Brands of Serum-Free Media



ATCC Primary Cell Solutions prostate epithelial cells were taken from liquid nitrogen and cultures initiated. The cells were cultured for 3 to 4 days. The cells were then seeded in triplicate into a 24-well plate at 1,000 cells/cm<sup>2</sup>, 600 cells/cm<sup>2</sup>, or 400 cells/cm<sup>2</sup>, and grown for 4, 6, or 7 days respectively in different brands of serum-free media. Cell proliferation was measured by removing the medium and adding 0.05% Crystal Violet stain solution and incubated. The plates were rinsed and then allowed to air-dry. The dried stain was then resolubilized using alcohol. Absorbance at 590 nm was measured using a Wallac VICTOR2™ MultiLabel Counter. The medium was not changed during the incubation period; the assay is a measure of a media’s capacity to support log-phase growth over time. The higher the absorbance value, the faster the rate of cell proliferation.

## Growth Rate Comparison\*: Prostate Epithelial Cells Cultured in Different Brands of Serum-Free Media



Medium	Number of Doublings	Days in Culture	Average Doubling Time (hrs)
ATCC Complete Prostate Epithelial Cell Growth Medium	15.7	21	32.9
Supplier 1	15.5	24	38.8
Supplier 2	15.6	28	47.7
Supplier 3	13.7	28	52.5

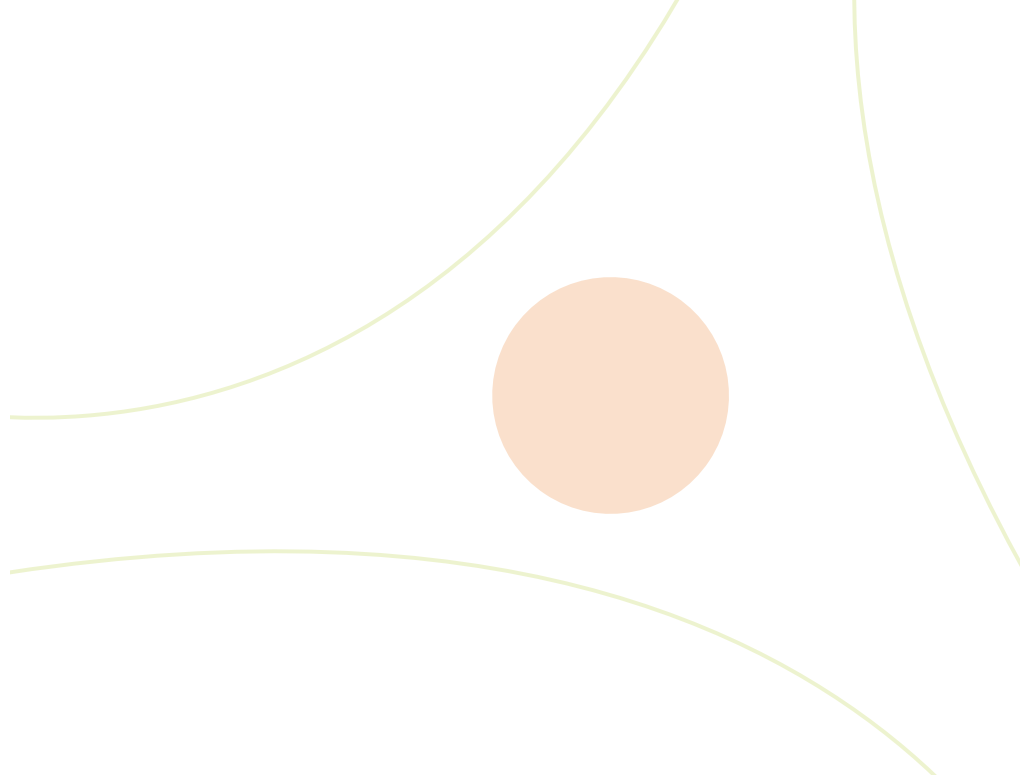
\*This experiment was conducted while various lots of ATCC Primary Cell Solutions prostate epithelial cells were undergoing QC testing. When the QC-specification for population doublings was achieved (≥15) the experiment was concluded; cells grown in Supplier 3 medium did not achieve 15 population doublings.

PUTTING ALL THE PIECES TOGETHER ADDS UP TO YOUR SUCCESS.



To achieve the best possible results, we suggest that you order a complete system for each cell type:

	Product Name	Components	Catalog No.
1	Primary Prostate Epithelial Cells; Normal, Human	$\geq 5 \times 10^5$ viable cells	PCS-440-010
2	Prostate Epithelial Cell Basal Medium	485 mL	PCS-440-030
3	Prostate Epithelial Cell Growth Kit	1 kit	PCS-440-040
4	Phenol Red	1 mL	PCS-999-001
4	Penicillin-Streptomycin-Amphotericin B Solution	1 mL	PCS-999-002
4	Trypsin-EDTA for Primary Cells	100 mL	PCS-999-003
4	Trypsin Neutralizing Solution	100 mL	PCS-999-004
4	Gentamicin-Amphotericin B Solution	1 mL	PCS-999-025
4	Dulbecco's Phosphate Buffered Saline (D-PBS)	500 mL	30-2200



Additional cells/cell types will be added in the coming months.  
Visit us online at [www.atcc.org/PCS](http://www.atcc.org/PCS) to bookmark the primary cell page for easy reference.

SUPERIOR QUALITY. EXPERT SUPPORT. RELIABLE RESULTS.



10801 University Blvd.  
Manassas, VA 20110

PC-0910-0.1-02

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**PHONE**

800.638.6597  
703.365.2700

**EMAIL**

[sales@atcc.org](mailto:sales@atcc.org)  
[tech@atcc.org](mailto:tech@atcc.org)

**WEB**

[www.atcc.org](http://www.atcc.org)