

Primary Components of the System



Testes

Primary sex organs producing sperm and hormones.



Accessory Ducts

Transport and store sperm.



Accessory Glands

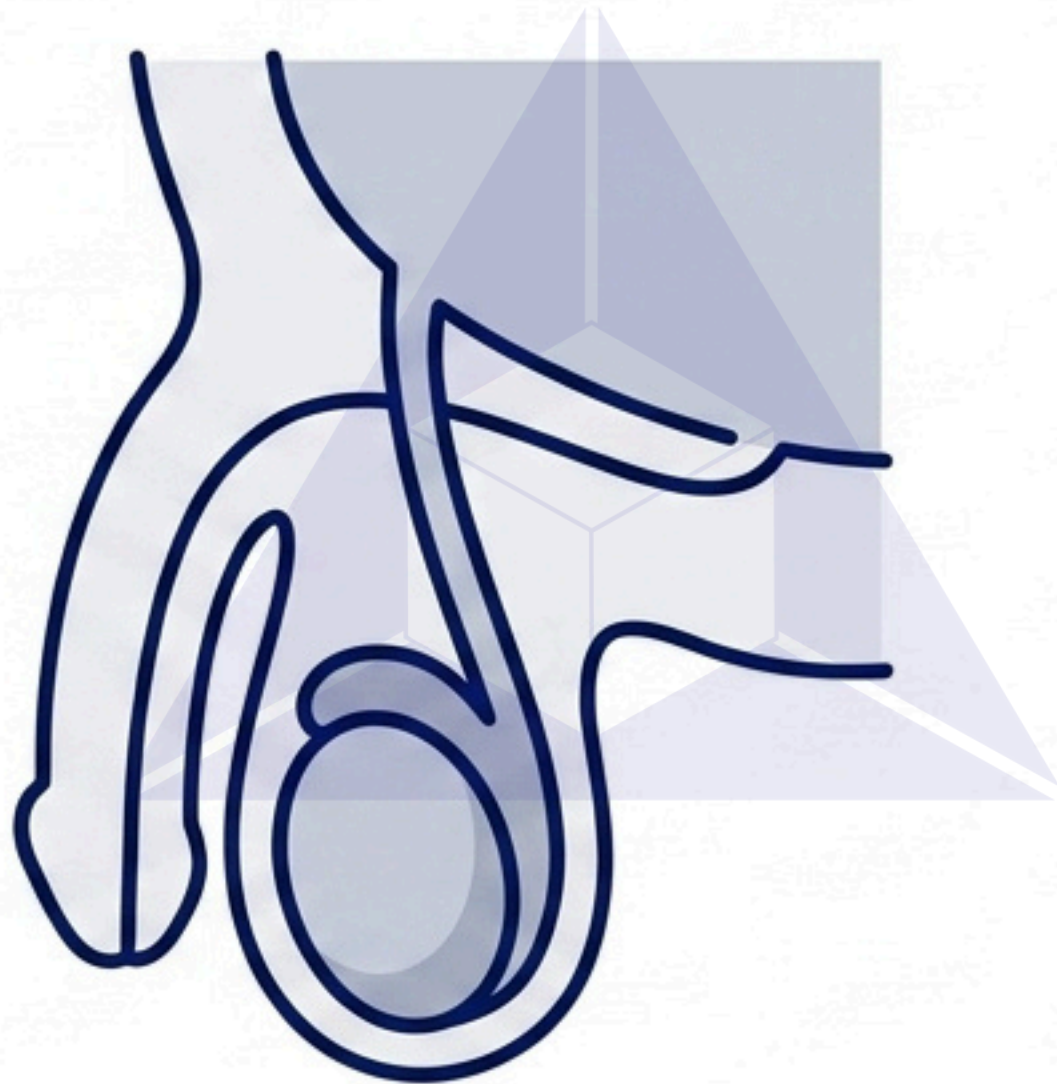
Produce seminal plasma.



External Genitalia

Penis / Copulatory organ.

The Primary Sex Organs



Location

Situated outside the abdominal cavity within a pouch called the **Scrotum**.

Dimensions: 4–5 cm length, 2–3 cm width.

Thermoregulation

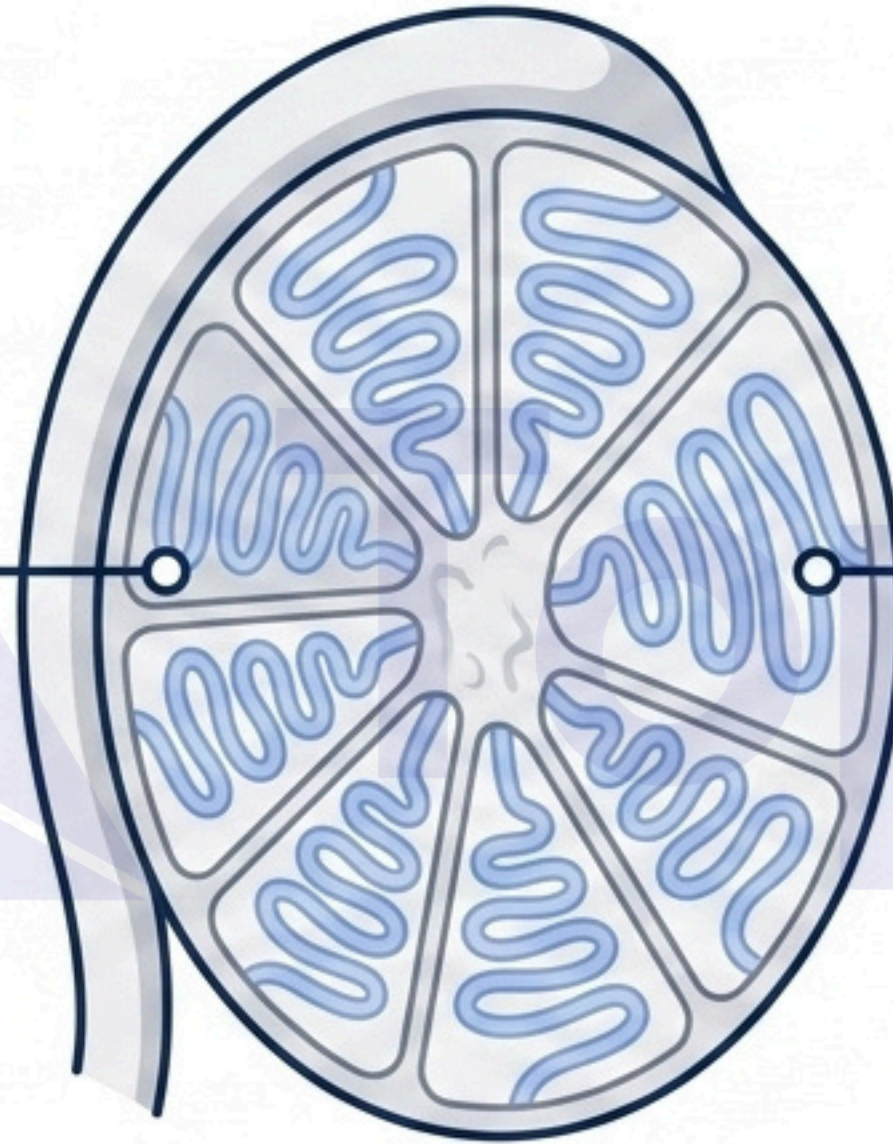
Scrotum maintains a temperature **2–2.5°C lower** than normal internal body temperature.

Strictly necessary for spermatogenesis.

Structural Compartments

Testicular Lobules

Each testis contains
~250 compartments.



Seminiferous Tubules

Each lobule contains 1 to
3 highly coiled tubules.

Site of sperm production.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

Practice Now



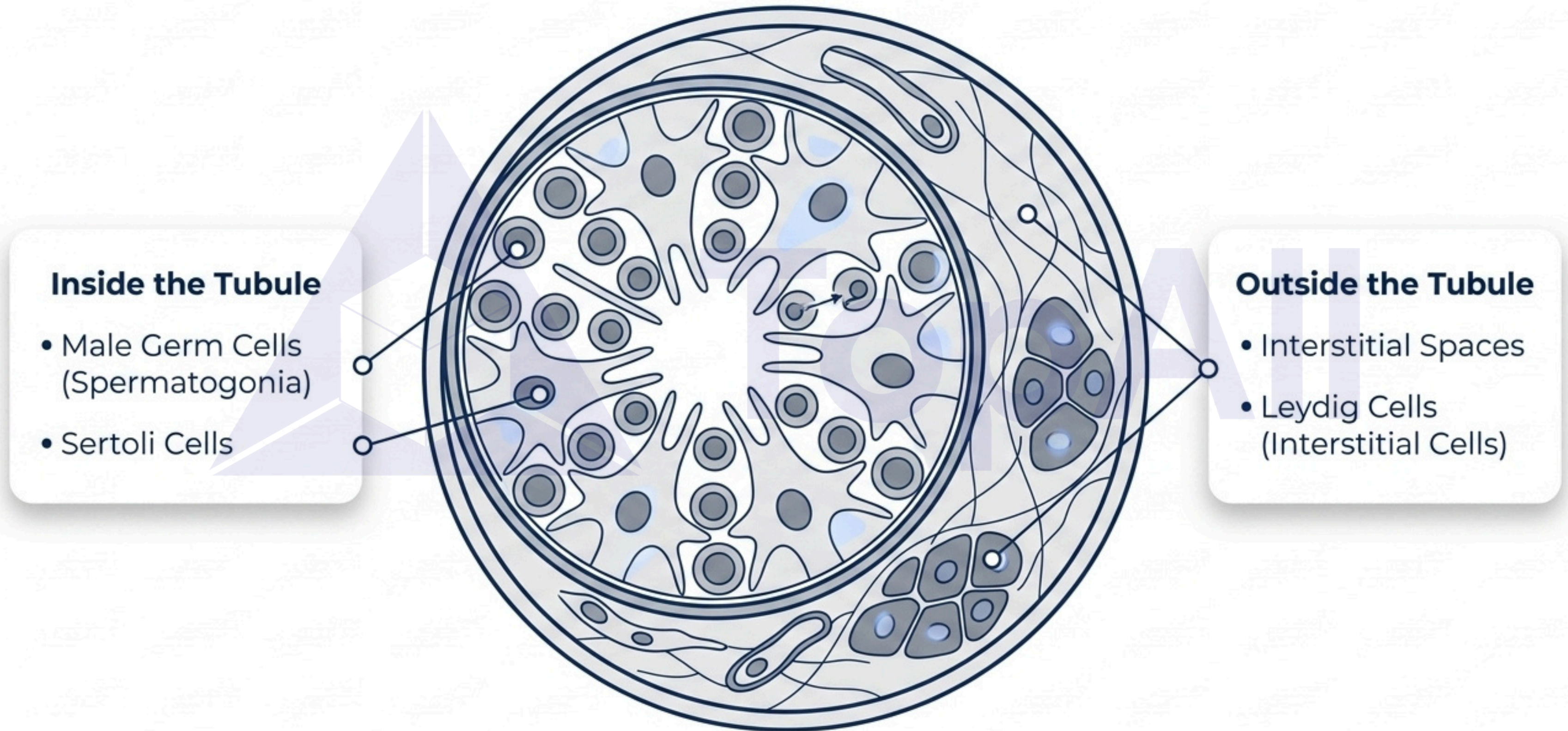
At prep.topall.app

Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



Micro-Anatomy of the Tubule



Key Cells & Their Functions

Spermatogonia



Undergo meiotic divisions to form

Sperms

Sertoli Cells



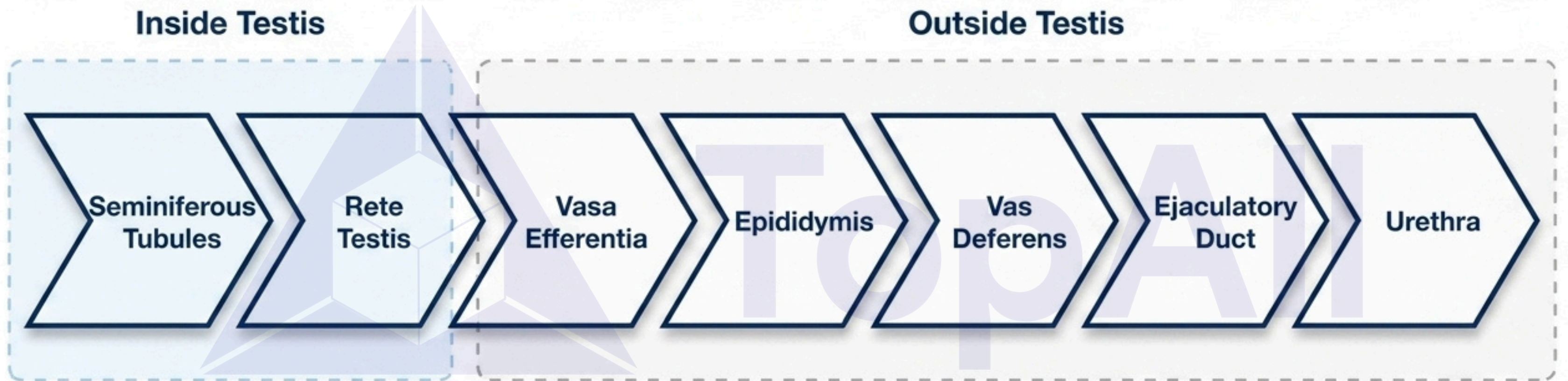
Provide **Nutrition** to the developing germ cells.

Leydig Cells



Synthesize and secrete testicular hormones (**Androgens**).

The Duct System Pathway



Accessory Glands & Seminal Plasma

Seminal Vesicles (Paired)

Prostate Gland (Single)

Bulbourethral Glands (Paired)

Secretion helps in lubrication of the penis.

Together, their secretions form **Seminal Plasma**, which is rich in **Fructose, Calcium**, and certain **Enzymes**.

Exam Takeaways (High-Yield)



Sertoli Cells → Nutrition for germ cells

Leydig Cells → Synthesis of Androgens

Seminiferous Tubules → Site of actual sperm production

Scrotum → Maintains 2–2.5°C lower temperature



You've Learned the Theory.

Now Let's Test It.

Reading notes gets you knowledge.

Practicing MCQs gets you marks.

That's exactly what TopAll Pro is built for.

Try TopAll Pro Now

What TopAll Pro Does Differently

-  **Stuck? Snap it. Solve it. — Doubts AI**
Photo → step-by-step solution in seconds, 24/7
-  **Your AI Coach finds your blind spots**
Concept-level weakness detection — not just chapter-level
-  **4.5 Lakh+ questions. Never run out.**
13× more content than any other prep app in India
-  **Build your own test in 60 seconds**
Pick a chapter, set difficulty — AI does the rest instantly.
-  **AI Recommendation that helps you improve**
AI Recommendation Analysis your Tests and tell you where you need to improve.



Practice the moment you finish studying
Jump in while the concept is still fresh in your head

4.5L+
MCQs

1.5L+
Students

AI Powered
In-Depth Analysis