

PROSTATIC CAPSULE

3D prostate system mimics the natural human prostate in healthy condition in terms of tissue architecture. It mimicks the prostatic capsule: a core of epithelial secretory cells embedded in a thin layer of smooth muscle cells forming fibromuscular bands.

Applications

- Mirroring gland inflammation, prostatitis and secretive gland disorders
- Drug and pro-drug metabolism
- Interference on prostatic gland metabolism
- Investigation on tissue compartments remodelling in inflammatory state
- 5- α reductase model: TST conversion in DHA

Cell source:

primary prostate smooth muscle cells and human prostate epithelial cells seeded in sequential co-culture to reproduce the native architecture

Shelf life:

up to 14 days

Relevance:

3D polarization of the 2 cell types to mirror the natural prostate architecture based on a fibro-muscular capsule embedding epithelial secretive cells.

MASSON'S TRICHROME STAINING ON PARAFFIN TISSUE SECTIONS

