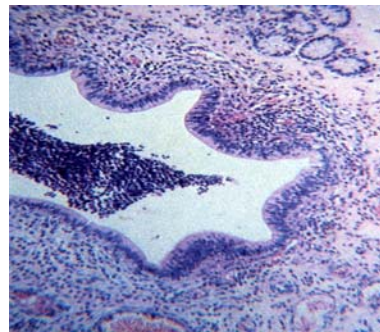


## DIAGNOSTIC SERVICES: EVALUATION OF SWINE SEMEN

Penn's Reference Andrology Laboratory offers an extensive line of diagnostic services for examination of swine semen. The primary purpose of these services is to aid practitioners in their differential diagnosis of individual and/or herd reproductive problems. These services are also frequently used by practitioners and swine studs as a third-party quality control component in an ongoing stud auditing process. Our laboratory strives to perform objective, validated techniques for assessing swine semen samples. Below is a list of current tests offered:



### ROUTINE SEMEN ANALYSES:

- ✓ Sample Volume (NIST traceable)
- ✓ Sperm motility (Computer Automated Semen Analysis [CASA] – IVOS)
- ✓ Sperm viability (CASA – Fluorophore)
- ✓ Sperm and Acrosome morphology (DIC – Nomarski Optics)
- ✓ Sperm Concentration and Total sperm (CASA; Hemacytometry)
- ✓ Sample osmolarity, conductivity, pH (NIST traceable)
- ✓ Routine Microbiology Evaluation, including:
  - Direct, aerobic culture
  - Enrichment techniques
  - Genus species identification of isolates
  - Antimicrobial susceptibility testing

### OTHER:

- ✓ On-site auditing of stud processes and techniques
- ✓ Semen extender analyses
- ✓ Spermicidal assessment of materials and isolates
- ✓ Water analysis

### PERSONNEL:

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