Jorgensen Laboratories, Inc.
Loveland, CO 80538

JorVet™
J-326S
Jorvet Stain
Live-Dead Semen Stain

The JorVet Live-Dead Semen Stain is a valuable diagnostic tool for all animal species in the evaluation of spermatazoa morphology. The proper examination of semen is an important veterinary procedure. A fertility evaluation of spermatazoa should consist of 3 separate criteria.

1) Sperm number: This should be evaluated with a hemocytometer.
2) Sperm motility: Extreme care with environmental insults such as cold shock can immobilize sperm. Small portable slide warmers are available for this purpose.
3) Sperm morphology: The appearance of an increased number of abnormal sperm in the ejaculate is a reflection of lesions of the testes and or of the excurrent duct system.

The JorVet Live-Dead Semen Stain is an eosin-nigrosin based stain.

Directions For Use
1) Semen smears can be prepared by placing a small drop of semen and an equal amount of stain placed next to each other.
2) A second slide is placed on edge at about 45°.
3) This slide is gently worked back and forth to mix thoroughly the semen and stain.
4) This second slide is then pulled across the primary slide leaving a thin smear as in doing a normal blood smear.
5) Examination is under a high powered light microscope but phase contrast should also be used. Certain sperm defects cannot be observed under a standard light microscope.
6) Abnormal sperm are categorized and percentages recorded while counting a total of 200 sperm cells.
7) If the presence of leukocytes or bacteria is suggested the semen should also be stained with a Wright Giemsa stain such as the JorVet Dip Quick Stain (#J-322).

Interpretation
The presence of 15% major abnormalities or more than 30% total abnormalities especially coupled with palpated testicular lesions is sufficient reason to classify an animal as an unsatisfactory potential breeder.
A repeat test should be done in 30 days to reconfirm any negative results.
See figures 1 and 2 on reverse side.

Additional Note
1) Many sperm abnormalities may be present in sexually immature animals.
2) The semen evaluated are part of about a 60 day cycle and transient insults such as heat stress should be considered.
3) Bacterial overgrowth can occur if contaminated or if not refrigerated.

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Contents 15ML

WARNING: FATAL IF SWALLOWED, FOR INVITRO USE ONLY. GENTLY SHAKE BEFORE USE. KEEP REFRIGERATED.
Figure 1: Major Sperm Abnormalities.

Figure 2: Minor Sperm Abnormalities.