

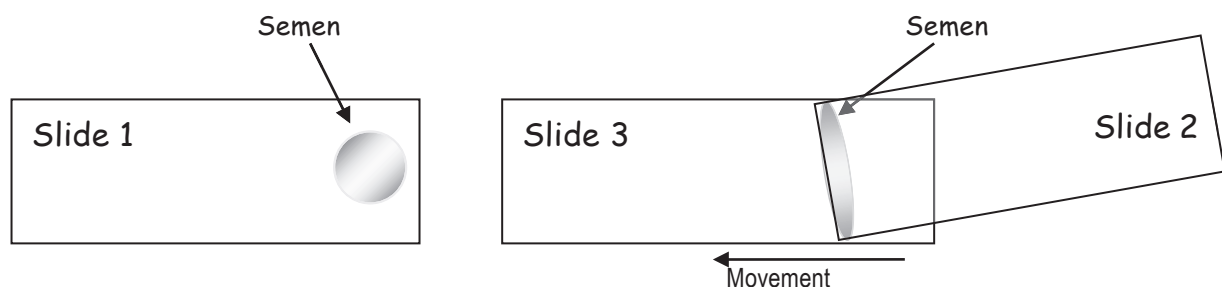
## Instruction sperm samples, morphological investigation

### Sampling box has to contain:

• Carefully completed referral	Animal name, no, breed, age, anamnesis with fertility statistics and results of clinical - andrological investigation. Do not forget the volume and motility of the ejaculate.
• Test tube with semen	Raw semen used for determination of the concentration. At larger quantities add about 1-8 ml of the well mixed ejaculate to the bigger tube.
• Ellermann tube	The tube contains formol-saline - buffered formalin solution. Should not be too old before use. The temperature in the solution should be nearly the same as the collected sample, not fridge temperature. Drip 4-5 drips of raw semen in the tube – the liquid will be slightly smoky. Add more if the sperm concentration is very low. Used in wet preparations for examination of the whole sperm cell morphology.
• Slides with smears	<ul style="list-style-type: none"> <li>• 2-3 pieces, smooth smears, for investigation of the morphology of the sperm head.</li> <li>• 2 pieces, smear with ridges, for investigation of other cellular admixture, mostly leucocytes. OBS! Write identity of the animal (on a small part of the writing field).</li> </ul>

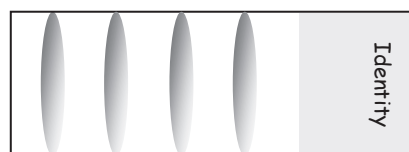
### Technique for smooth smears:

You need 3 slides. Put a drip of the ejaculate on slide no 1. Dip both corners of the slide no 2 in the drip on slide no 1 and put it against slide no 3 (the sample slide) in an angle of 45°. Let the semen float along the short end of slide no 2 with the drip behind it. Perform with a slowly movement and slightly pressure. Do two more smears and vary the amount of smears. Let the smears dry on a flat surface. Look in a microscope to see if the smears are good and thin/thick enough.



### Technique for smears with ridges:

The above described technique is not suitable for investigation of other cellular admixture because the cells have a tendency to float above the sperm layer and "fall off" the edges of the slide. Drip the short end of slide no 2 on the short end of slide no 1, put it on a new slide and make a smear some mm, lift slide no 2 a few mm and do a new ridge. 3-4 ridges are needed.



Send semen samples to: SLU, Institutionen för kliniska vetenskaper (Department of Clinical Sciences)  
KV-lab, Spermlaboratoriet (Sperm lab)  
Box 7054 (Almas allé 4C, 756 51 Uppsala, for bigger packages) 750 07  
UPPSALA  
Tel. 018-672175 or 018-672305  
E-mail: [KV-lab@slu.se](mailto:KV-lab@slu.se)