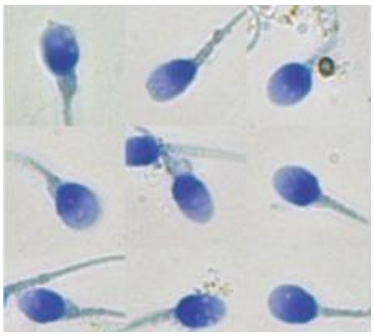
Goldcyto-SB pre-stained slides

Principle

Goldcyto-SB morphology pre-stained slides combine conventional microscope slides and isosmotic **SpermBlue** stain into a ready to use device for morphology assessment of sperm samples. This pre-stained slides are designed for use with automated system like Sperm Class Analyzer- SCA® or manually.

Principe of the device: when a small volume of cells/semen is deposited on a pre-stained slide, the fixative-stain film dissolves in fluid/seminal plasma and stains the sperm cells.



Product characteristics

1 Box content: 50 slides ready for use

Storage and stability

The slides must be stored protected from light and at room temperature (15 – 25°C). They can remain stable for at least one year since manufacturing date, provided they are not in contact with light.

Sample preparation/Staining procedure

1. Check the colour of the stained slide before put on the sample. If this is homogeneous and clear blue proceed with the next step.
2. Prepare a smear with 5µl of semen sample. Pipette 5 µl of semen sample on the edge of the slide and prepare the smear like figure 1.

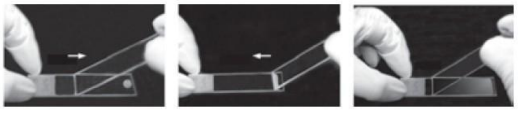


Figure 1. Smear preparation

3. Put the slide into the hotplate 56°C 30-60 seconds.
4. Drop the slide into the water jar 1 second.
5. Dry the slide in the hotplate.
6. Start assessment immediately.

For the analysis with the **motorized stage**, it is recommendable **to wash the sample** following the next protocol:

1. Mix gently 0.2 – 0.5 ml (depending on the sperm concentration) liquefied semen with 10 ml of physiological saline or PBS (pH 7.4 ±2).
2. Centrifuge the sample during 10 min at 800 rpm.
3. Remove most of the supernatant.
4. Mix gently the rest, usually 20 to 40 µl.
5. Check sperm concentration.
    - If Concentration is between 45 – 65 M/ml start the staining procedure.
    - Concentrations below 45 M/ml, add 20 µl of physiological saline or PBS (pH 7.4 ±2) and repeat step 2.
    - Concentrations above 65 M/ml dilute the semen sample with PBS or seminal plasma if available.

Remarks

Alternatively, you can also use the **Goldcyto- SB** with the following protocol:

1. Put a drop of 1 µl of sperm sample in the slide and wait a minimum of 30 seconds, ideally 1 minute before placing the 22x22 mm cover glass. There is enough space for 2 drops of 1 µl and 2 cover glass of 22x22 mm.
2. Place the cover glass carefully and help to expand the sperm sample pressing carefully.
3. Put the pre-stained slide in a 60°C heating place for a minimum of 1 minute, ideally 5 minutes or more.
4. The staining will improve with the time passing.
5. Start the manual assessment or go to the SCA® morphology and start the analysis of the fields. Analyse the spermatozoa in the cover glass borders where the sample is stained. Most of the sample will be stained with the dye as the time passes, with the exception of the centre where the drop have been placed.