



Counting chamber SCA Protocol

DISPOSABLE COUNTING CHAMBER TO ANALYSE MOTILITY, CONCENTRATION AND pH OF SEMEN (10 micron – 2 chambers – pH)

Principle:

These slides are suitable for the analysis of sperm motility, concentration and pH with the SCA SCOPE.

Sperm cells distribute homogeneously over the chamber by capillary action. As disposable chambers, no washing is required after use. This fact minimizes the risk of contamination resulting from the re-use of chambers.

Each slide allows to perform two replicates for each semen sample, as recommended by the WHO 6th ed., and the evaluation of the semen pH (an automatic lecture of the pH strip will be provided by the SCA SCOPE immediately after assessing replicates for motility and concentration).

Product characteristics:

1 Box content: 25 slides/ 25 tests

Material required:

Warming stage (In case of assessing motility at 37°C)

Pipette and tips

A piece of paper towel

Storage and stability:

Counting chambers SCA should be stored in a closed box, protected from sunlight, and at room temperature. The shelf life of the

slides are a year, but a haze can form inside the chamber. Filling will wash this away and does not affect the functioning of the chamber.

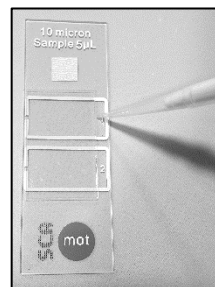
Loading instructions for chambers with pH

Step 1: Fill the pipette with the sample, aspirate some extra microliters than the described on the slide (total of 7µl).

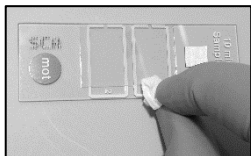
Carefully place the tip of the pipette on the slide (chamber n°1) within the boundaries of the loading area. Be careful not to touch the cover slip to prevent premature filling of the chamber.

In just one step, push the piston down till the first resistance to load the loading area. The chamber will be filled by capillarity. If chamber is loaded in more than one step lots of air-bubbles could be inserted inside the chamber. Thus, affecting the reliability of results.

Depending on the viscosity of the sample filling will take 3 - 20 seconds or even more.

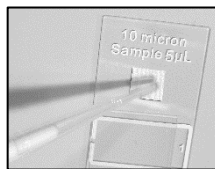


Step 2: Carefully, take away the excess semen with a paper towel or similar to stop the drifting of cells inside the chamber.



Step 3: Repeat steps 1 and 2 for loading the chamber nº2 (replicate).

Step 4: Insert 5µl of sample into the centre of the pH strip included in the slide. Wait for 5-10 seconds to allow a homogeneous coloration all over the strip.

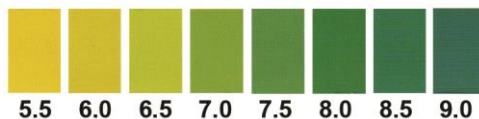


Start the analysis as soon as possible to prevent evaporation of the sample.

If the analysis cannot be performed directly after filling, and if no motility analysis is needed, the inlet and air outlet can be sealed with nail polish to prevent evaporation.

NOTE: It's recommended to prewarm slides and pipette tips at 37°C in order to prevent temperature shock during sample handling

LECTURE OF pH STRIP:



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