

The Disposable Semen Analysis Chamber

The Cell-VU® Cytometer consists of a patented, specially-designed glass slide in a standard size 7.5cm x 2.5cm (3"x 1"), with a coverslip that has a counting grid laser-etched into its surface.

No Special Adapters or Reticles Needed

The coverslip's 1 x 1 mm grid is divided into 100 0.1mm areas. The entire grid is thin enough to use under high magnification without special adapters or reticles. The slide has two chambers (for dual determinations), each with a depth of 20 µm. This depth is optimal for sperm cells to form in a monolayer, and movement is unencumbered so motility can be assessed and counts easily made.

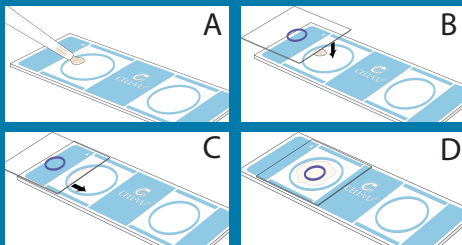
Cheaper and Safer than Reusable Chambers

Disposal of the entire apparatus eliminates costly cleaning and minimizes clinician exposure to body fluids and possible cross contamination. Both the slide and coverslip are clearly marked to ensure correct use.

More Accurate; Eliminates Chamber Wear

Reusable chambers can easily wear with use, producing less accurate results. Each test with a Cell-VU® Cytometer is performed with a new chamber, ensuring the most accurate test results possible. In fact, a well-designed study has determined that Cell-VU® Cytometers are much more accurate than conventional reusable chambers. [Fertility & Sterility (66:662-665, 1996)]

General chamber preparation for semen testing



Mix the sample thoroughly just before testing.

1. Pipette one drop (approximately 4 microliters) of specimen. Place the specimen at the extreme edge of one of the sampling areas (figure A). Two tests can be performed using one Cell-VU® slide. Make sure the Cell-VU® name on the cover glass is facing the observer as the grid is etched on the reverse side.
2. Gently lower the cover glass over the specimen so that the edge of the cover glass just covers the sample (figures B and C).
3. Slide the cover glass into position as shown in figure D. This will eliminate air bubbles from the counting area.

Using Cell-VU® for sperm counts and motility (%)

Isolate and view the Cell-VU® grid. This grid is divided into 100 small boxes each 0.1 x 0.1 mm. For undiluted sperm, count all motile and non-motile sperm within 10 small boxes of this grid. Divide this number by 2. This result is the concentration of sperm in millions per ml.

$$\% \text{ Motility} = \frac{\# \text{ Motile Sperm}}{\# \text{ Motile Sperm} + \# \text{ Non-Motile Sperm}} \times 100$$

Suggestions:

For increased accuracy, count all sperm within the entire central square (100 boxes). Multiply the count by 50,000 to obtain the total concentration of sperm per ml. Sperm can be immobilized by placing a small amount of sample in an appropriate container and then immersing it in hot water for several minutes. If diluted specimen is used, follow the instructions and multiply by the dilution factor.

• Clean

• Easy

• Affordable