

Makler Counting Chamber

Makler Counting Chamber is an easy-to-use device for fast and accurate sperm count, motility evaluation and cell morphology analysis of a semen fluid sample.

The analysis is performed directly on non-diluted, non-stained semen fluid, by microscope analysis.

Makler Chamber guarantees standardized conditions for all of the analyzed samples; it ensures a more accurate evaluation of motility as it allows free movement of spermatozoa that are uniformly distributed in a friction-free single horizontal plane.

Accuracy of analysis is enhanced through the elimination of the various steps required by the usual hemocytometric technique.

The Makler Counting Chamber is quickly and easily available for reuse.



The Makler counting Chamber is only 10 µm deep and is constructed from two pieces of optically flat glass.

The upper glass is a cover - slip with a square fine grid in the centre, subdivided into 100 squares of 0.1 x 0.1 mm each.

The lower glass is a specimen holder with four fixed-height quartz pins that create a well - defined space where the sample volume will be added for analysis.

When the cover slip is placed onto the quartz pins, the volume enclosed between the two layers is exactly 1 million part of mL. The number of spermatozoa is determined by counting the cells in 10 or more squares in different regions of the grid, and the mean value is calculated afterwards; this value is then multiplied by 100.000 in order to obtain the concentration in millions per mL unit.



Code	Product
LF071	Makler Counting Chamber, including cover glass with grid
LF072	Cover glass with grid for Makler Chamber