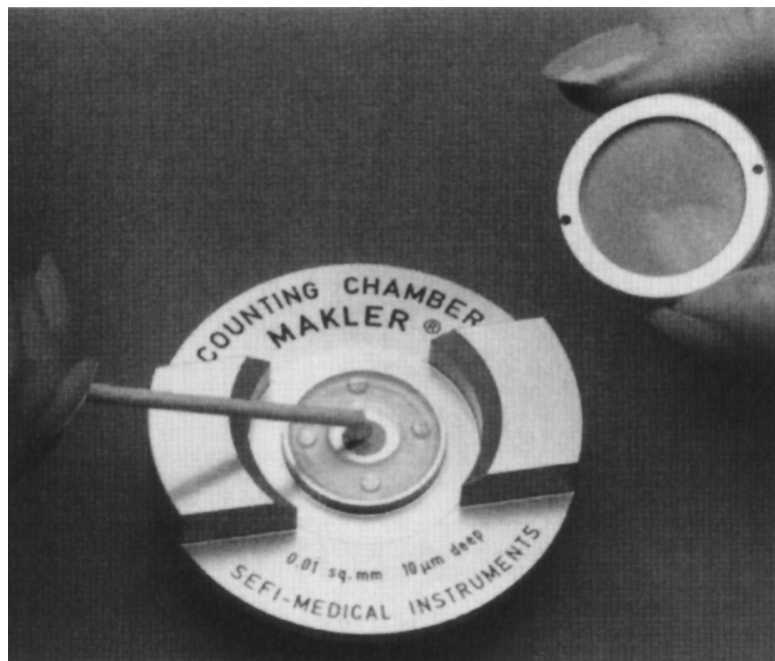


**INSTRUCTIONAL MANUAL
CAT. 68052-01**

Makler Counting Chamber



Electron Microscopy Sciences

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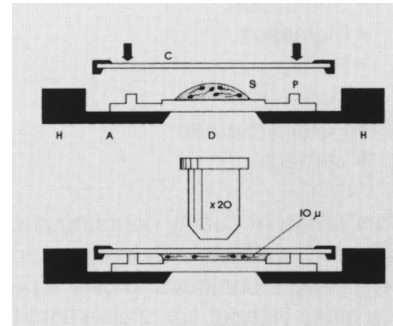
Introduction

For Rapid Semen Analysis

The Makler counting chamber is only 10 microns deep, which is one tenth the depth of other hemacytometers, making it the shallowest of known chambers. This quality chamber is constructed from two pieces of optically flat glass: the first is the chamber, the second is the cover glass which has a fine grid pattern of 1mm squares and a center area further subdivided into 0.1mm squares. Four quartz pins of precise height hold the cover glass to give an exact trapped specimen depth of 10 microns.

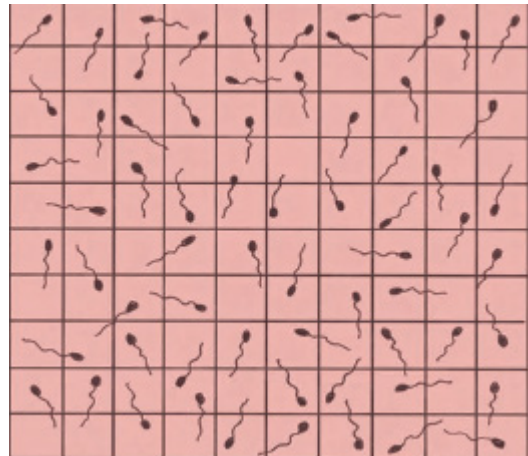
Features

- The shallow 10 micron depth:
 - Prevents blurring.
 - Allows free movement for the sperm.
 - Can be observed in one focal plane.
- The grid is built into the cover glass. and does not need to be inserted into or removed from the microscope eye piece.
- The applied sample cannot raise the cover glass.
- The chamber can be accurately used repeatedly without needed to recalibrate.



Use

- No dilution is required to perform sperm count.
- The concentration (in millions/mL) of spermatozoa can be determined just by counting them in any strip of 10 squares from the grid.
- To ensure accuracy, check for color fringes at four points of contact.



Cleaning

The chamber can easily be cleaned using a non-bleach disinfectant solution.