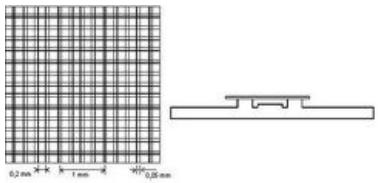
Burker chamber

Bürker's chamber is a special glass slide. It is used when determining the number of red or white blood cells.



Burker chamber

Dimensions of Bürker's chamber

- ***Depth*** is 0,1 mm.
- ***The grid*** is formed by a system of *small squares* (with side a=0.05 mm, the volume of the space bounded by this type of square is therefore 1/4000 mm 3) and *large squares* (with side a=0.2 mm, the volume of the space bounded by this type of square is i.e. 1/250 mm 3).

Principles of using the Bürker chamber

- Drop the Blood onto the edge of the coverslip with a Pasteur pipette and let it flow into the chamber (do not drip directly into the chamber!).
- When determining the number of erythrocytes , we subtract the number in 80 small squares..
- When determining the number of leukocytes , we subtract the number in 50 large squares.

Links

Related articles

- Determination of the number of cells, their viability and metabolic activity

Source

- Institute of Pathological Physiology of the Faculty of Medicine, Charles University in Pilsen (http://patofyziologie.lfp.cuni.cz/)
- Own notes on practical exercises in Physiology, Institute of Physiology 1.LF UK in Prague, winter semester 2013/2014