# TruLab®

COUNTING CHAMBER SLIDES

Designed for the quantitation of particulate liquid material, in the applications of water and urine analysis, cell and particle counting and etc. Molded from a high quality optical clear PS material, counting chamber slides are of a standardized depth, subject to strict quality control during production and before delivery, and ready for use, delivering considerable accuracy and precision and great convenience over the conventional glass counting chamber.

Anatomy of the Counting chamber slide
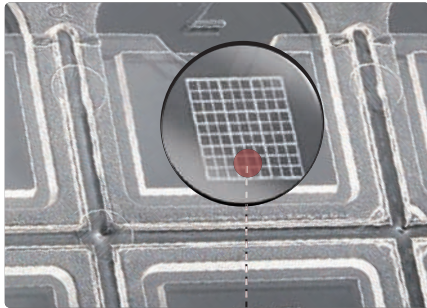
- There are 10 chambers on the slide
- The area delimited by the grid is 3mm×3mm
- The grid is divided into 9 squares of 1mm×1mm
- Every square of 1mm×1mm is further divided into 9 smaller squares of 0.333mm x 0.333mm

Corresponding capacities:
- The whole delimited grid: 0.9 L
- Each of the 9 squares of 1mm x 1mm: 0.1 L
- Each of the 9 smaller squares of 0.333mm x 0.333mm: 0.0111 L

HM340 Delimited area of 3mm x 3mm

HM330 Delimited area of 3mm x 3mm

Large Central Square
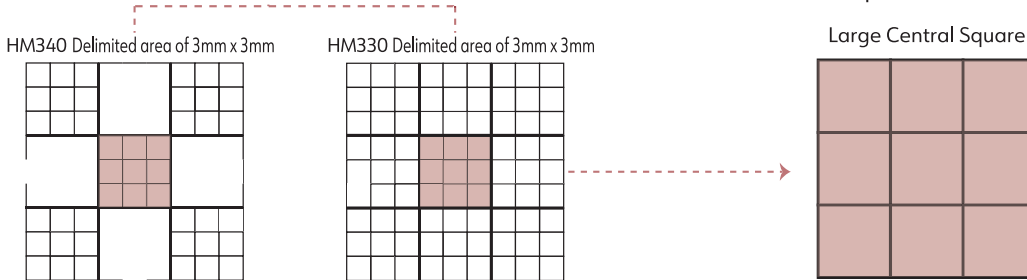
Formula:

To obtain the number of cells per µl: $T\mu l = \dfrac{n}{k \times N \times CF}$

Formula:

To obtain the number of cells per ml: $T\mu l = \dfrac{n \times 1000}{k \times N \times CF}$

Remarks:

n	= total number of cells counted	CF	= concentration factor
k	= 0.0111	Tµl	= total cells present in 1µl
N	= number of small squares observed	Tml	= total cells present in 1ml