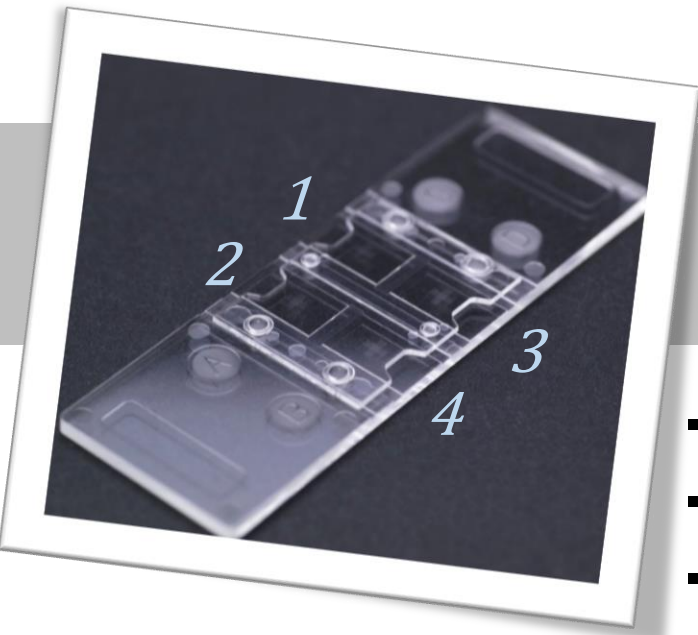


Disposable Hemocytometer (4-Chambers)



Improved Neubauer
Cell Counter

- Designed for rapid loading
- No washing, no labor, save time
- Same grid as standard one
- High calculation accuracy
- Made of durable and high grade plastic

More detail

https://www.funakoshi.co.jp/exports_contents/80019

Code	Product name	Unit
521-10	Disposable Hemocytometer (4-chambers)	20 slides / 1 case
		50 slides / 1 case
		200 slides / 4 cases

Improved Neubauer Cell Counter Counting Method for Culture Cells

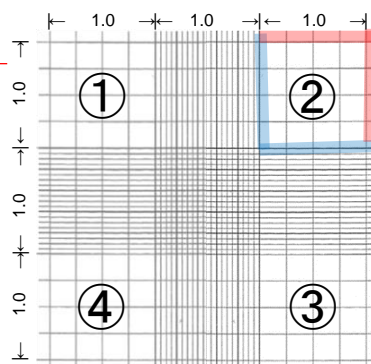
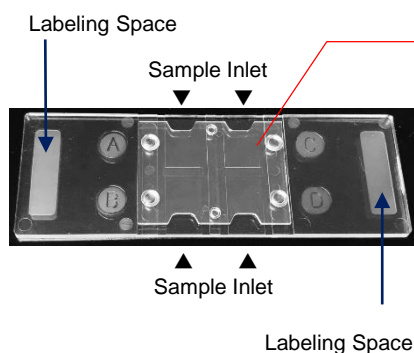
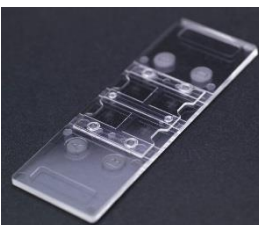
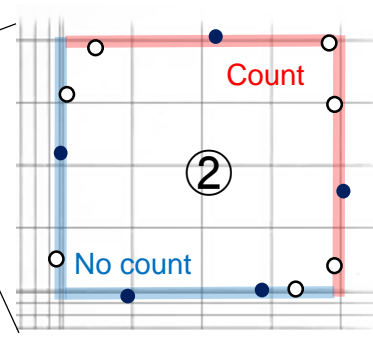


Fig.1 Counting Area

Fig.2 Enlarged image of area②
○ Live cell ● Dead cell

【 Sample Preparation 】

- 1) Prepare cell suspension. When counting adherent cells, disperse cells by cell detachment solution such as Accutase or Accumax (Innovative Cell Technologies, Inc.) for accurate counting.
- 2) Take 100 μL of cell suspension and transfer to another tube. Add 100 μL of prepared Trypan Blue (0.3 - 0.4%) solution to the tube. (This makes x 2 diluted solution).
Note : Dilution rate should be optimized if cell numbers are high.

- 3) Pipet the solution gently.

【 Counting 】

- 1) Take 10 μL of trypan blue stained cell suspension. Inject the solution from sample inlets slowly.
Note : High speed injection may cause leak to other chambers.

- 2) Count all cells on compartment ① - ④

- If the cells are on border lines, count those on 2 border lines only. (Red line, see Fig.2)
- Count Live cells (Unstained) and / or Dead cells (Stained)

- 3) Calculate cell numbers

< Cell numbers in 1 mL >

- Live cells = (All live cells / counted compartments) x dilution rate x 10^4
- Dead cells = (All dead cells / counted compartments) x dilution rate x 10^4
- Viability (%) = Live cells / All cells (=Live cells + Dead cells) x 100

【 Tips and Notes 】

- For accurate counting, adjust cell numbers to 100 – 500 cells / 1 mm^2 .
- Empty chamber may have small objects, but this does not affect to count.
- This is reference only. Detail counting method or for more information, please see experiment protocol book.