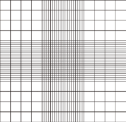
**Hemacytometer Pre-Lab** 

(Use Counting Cells in the *Plating Cells Protocol* for reference)

Lori Hensley (Jacksonville State University)

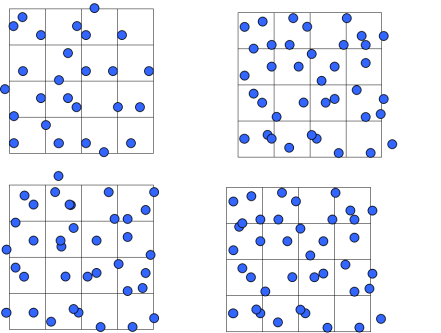
1. Watch “Counting Cells” Cell Block (Vidoe)

2. Box the four squares on the grid that you are going to count.



3. Count at least 3 out of the 4 boxes on one side of the hemacytometer and get the average cells/mL. (the average of your counts x104gives the cell concentration per mL.

a. Example: Hema count: 133, 145, 128, 154 Avg = 140, 140x104cells/mL b. When you are counting your cells, you will also count the boxes on the opposite side of the hemacytometer

Hema count: Avg = \_\_\_\_\_\_\_\_\_\_ Cells/mL = \_\_\_\_\_\_\_\_\_

4. Find the number of mL you need from your flask of cells to get the total number of cells needed.

a. Example:

total cells needed . 8x106 cells . = 5.7 mL of cells

average cells/mL 1.4x10~~6~~ cells/mL

Take this amount

from flask of cells and

add to a centrifuge

tube

∙ You are plating 12 wells with a concentration of 6x105cells/well. You will put 2 mL of cell suspension (cells from flask + media) in each well. (Don’t forget to make extra.)

Total number of cells needed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total volume: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Volume needed from the flask of cells: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Volume of media needed to add to cells: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. opposite side of the hemacytometer.

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