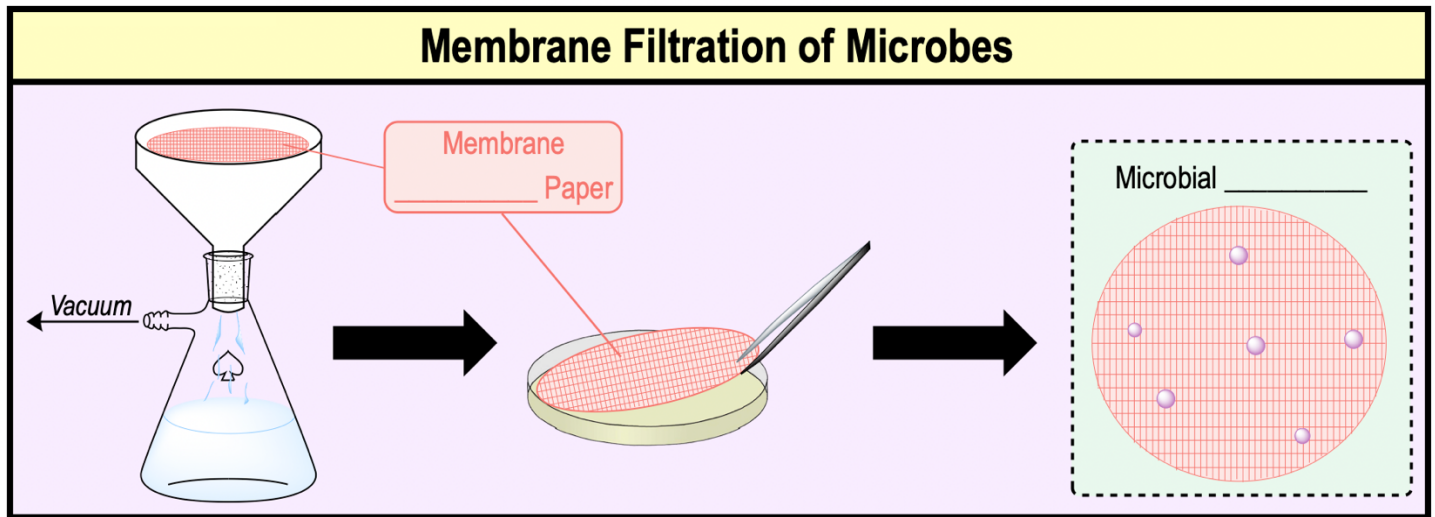


CONCEPT: MEASURING GROWTH BY MEMBRANE FILTRATION

- **Membrane Filtration:** process used to count the number of *viable cells* in liquid cultures with only a _____ cells.
- Known volume of liquid culture is passed through a *membrane* _____ where cells get trapped.
 - _____ form after membrane filter with trapped cells is transferred to agar plate & incubated.
 - Counting the colonies that formed gives the total number of _____ cells in the original liquid culture.



PRACTICE: Microbial cell colonies can be grown on a solid growth medium or within a liquid growth medium. If you wanted to count the number of bacteria cells in a small colony found in a liquid broth, which counting technique would you use?

- Flow cytometry.
- Coulter counting.
- Membrane filtration.
- Direct microscopic cell counting.
- None of the above.

PRACTICE: Many forms of technology have been invented to prevent microbiologists from having to count each and every individual bacterial cell they are studying. Which form of technology is able to count the number of cells in a bacterial population using a laser beam?

- Flow Cytometer.
- Membrane Filtration.
- Coulter Counting.
- Plate Counting.