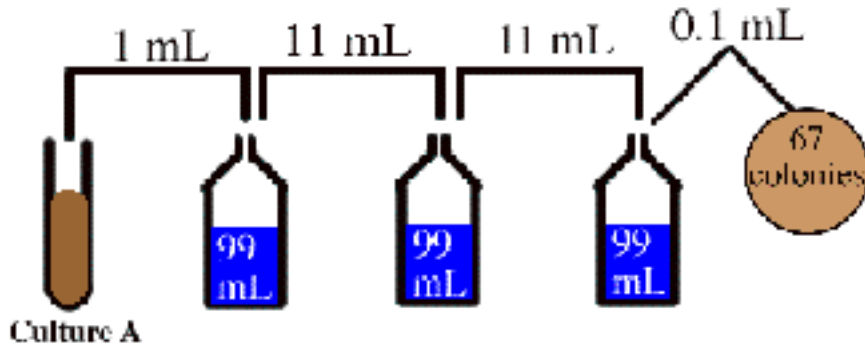


EXTRA DILUTION PROBLEMS

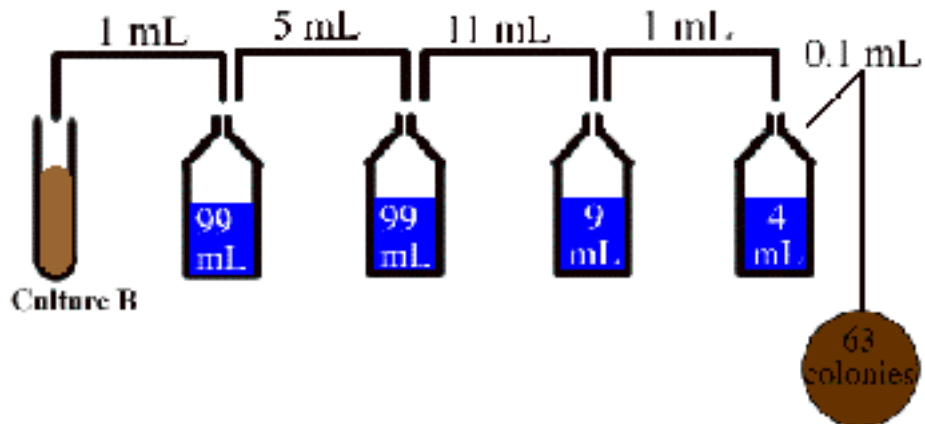
1.

Use the following dilution scheme to determine the titer (bacteria/mL) of culture A.



2.

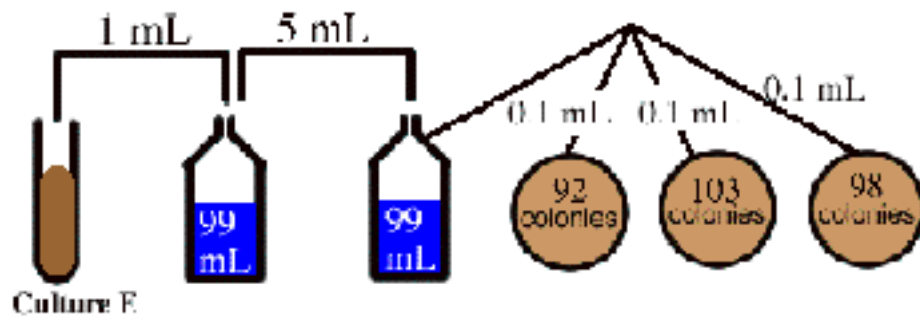
Use the following dilution scheme to determine the titer (bacteria/mL) of culture B.



3. Culture C has a titer of 1.5×10^8 bacteria/mL. Draw a dilution scheme showing 1 method in which this culture could be diluted to give plates with between 30 and 300 colonies.

4.

Use the following dilution scheme to determine the titer (bacteria/mL) of culture E.



5. A student performs a dilution on culture F. She finds that the plating factor is 10^8 and the average number of colonies per plate is 45. What is the titer of the stock culture?