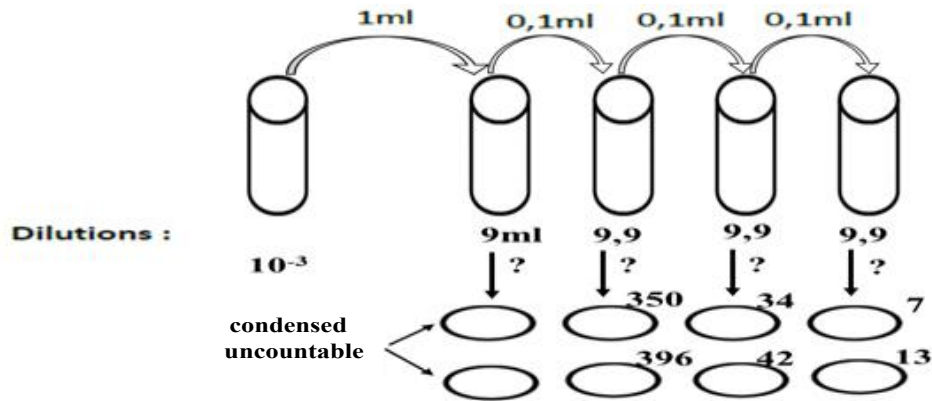


Tutorial N°4: Microbiological Control Techniques

Exercise 1: Milk analysis

We have a milk sample to analyze.

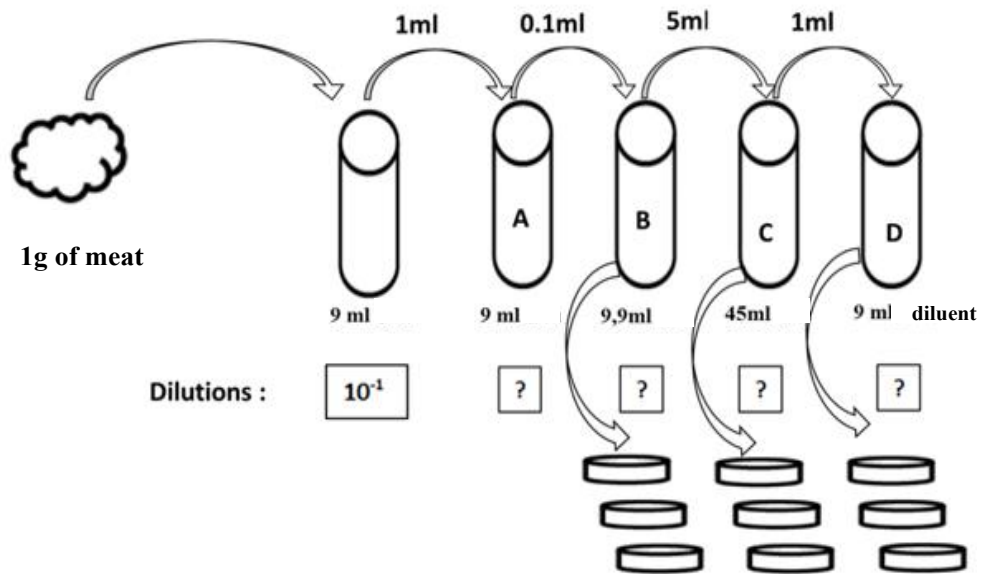
A) Calculate the dilutions and the number of microorganisms per ml of the following:



B) Provide a diagram to obtain the following dilutions:

10^{-1}	10^{-2}	10^{-4}	10^{-6}	10^{-7}
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Exercise 2 :



1) Give the dilutions of tubes A, B, C, D.

2) Counting the colonies on Petri dishes enabled us to produce the following table:

TUBES	B	C	D
Dilutions	. ?	. ?	. ?
Number of colonies per Petri dish	245 214 Contaminated	123 110 100	40 23 15

- Calculate the number of microorganisms per milliliter.