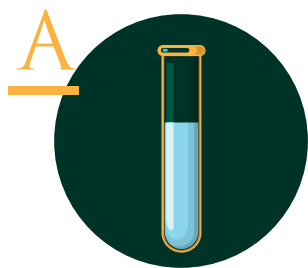




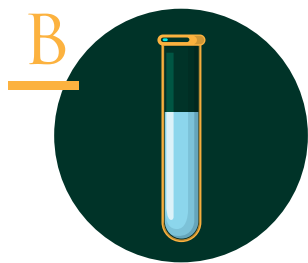
SOUTH-FLORIDA FARMING CORPORATION

TOTAL BACTERIA QUANTIFICATION INSTRUCTIONS AND TOTAL CONCENTRATION OF SPORES IN WATER

The dilution will depend on the concentration of the product. Normally the concentration of total cultivable bacteria in the water varies from 10^4 to 10^6 CFU/mL, it is suggested to choose 10^{-2} and 10^{-4} dilutions. For spores where the goal is to reach 106 CFU/mL, use 10^3 and 10^4 dilutions. The best dilution is where no less than 20 and no more than 300 colonies per plate are obtained.

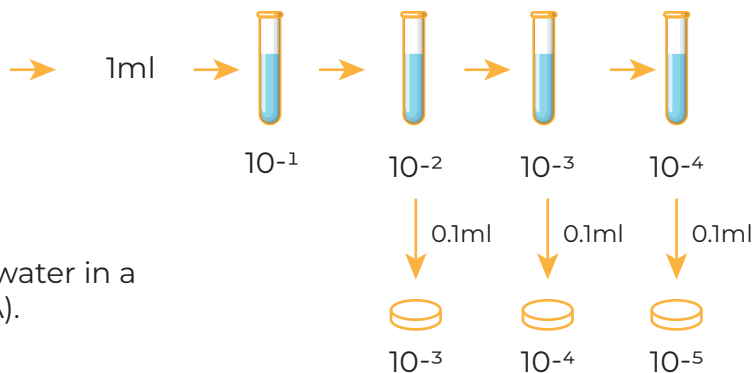


1. Take a sample of the tank water in a sterile tube (approx. 15 ml) (A).



2. Transfer 9 ml from tube (A) to new tube (B). The remainder of tube A is used for counting total bacteria

Dilution of the sample by passing 1 mL of the last vial to test tubes with 9 mL of sol. successive resuscitation.

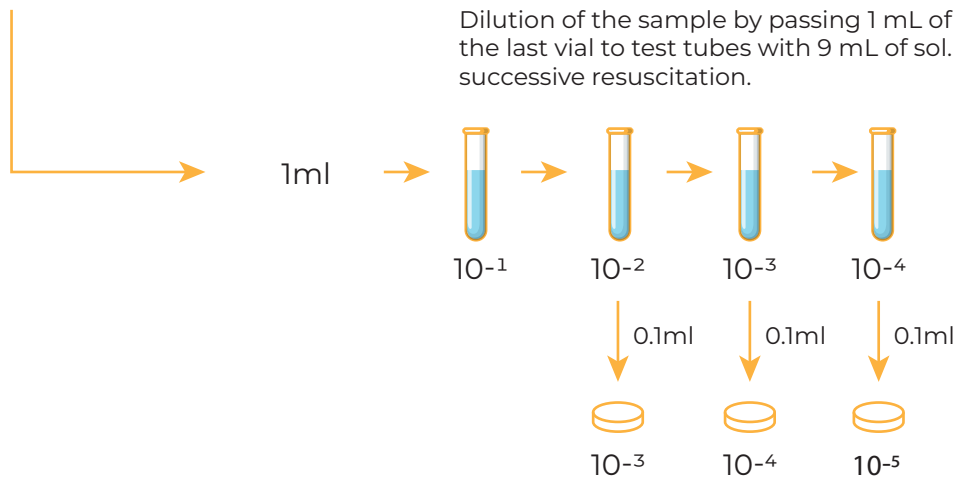


Multiply this dilution x number of colonies express as Total Bacteria.

Treatment to select spores

60 minutes at 45 degrees → 1 ml. Sun. Tween 80 15 minutes at 70 degrees. This treatment eliminates all the vegetative cells and only leaves the spores viable or capable of sporulation.

Dilution of the sample by passing 1 mL of the last vial to test tubes with 9 mL of sol. successive resuscitation.



Multiply this dilution x number of colonies expressing with total spore-forming.