

## Lab week 4

### Isolation of Microorganisms from soil, water and air

#### Aim:

To isolate bacteria and fungi from soil, water and air and to observe the physical characteristics such as colony shape, color, etc., to qualitatively understand the diversity of microbes in the environment and approximately enumerate the diversity.

#### Introduction:

Microorganisms are ubiquitous. We find them in soil, air, water, food, and sewage, on body surfaces. In short, every area of our environment is replete with them. Microorganisms have a considerable impact in the environment as well as in our daily lives, as they can gradually modify an ecosystem, cause disease to plants, animals, and humans or they may be used for the production of compounds such as antibiotics, vaccines, enzymes added to detergents, or food such as wine and yoghurt.

Isolating microbes such as bacteria from sources like soil, water and air is an important first step in many microbiology experiments. Once they are isolated, bacteria can be further analyzed to study their genetic, physiological and biochemical characteristics, so that we can understand their function in a given environment. For e.g., the diversity and the population count of microbes can indicate the biotic nature of soil in a region. Similarly, the quality of water can also be indicated by microbial diversity.

#### Experimental Procedure:

Since the quantity of microbes can be more than a million in soil or water, it is recommended to dilute the sample. This method of isolating microorganisms is called serial dilution technique, depicted in the figure below:



The dilutions have to be prepared in sterile saline solution (0.9%).

#### A. Isolation from soil sample:

1. Weigh 1 g of soil and suspend it in 9 mL of sterile saline solution. Mix thoroughly.

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