

**Isolation of Fruiting Gliding Bacteria**

Soil is the main source for the isolation of most genera of bacteria. According to the method designed by scientist Stanier, one of the most efficient method for isolation strain that analyst cellulose from gliding bacteria , such as *Polyangium* , *Chondromyces* and *Nannocystis*.

One of the important described diagnostic for gliding bacteria is form fruiting bodies which invested successfully for their Isolation, This method Include use medium (Staniers mineral salt agar) provider with cellulose in the form of filter paper sterilized or powder as a only source of carbon's, showed as bright areas with yellow colors or orange or brown and even black on the filter paper around the patch dirt after incubation, accompanied with clear areas of decomposition. We can see thick fruiting bodies and mucus in mashed cellulose .

**Procedure**

- 1- Preparation Culture medium ( Staniers mineral salt agar) .
- 2- Put 5 grams of prepared soil sample in a sterile dish by sterile spatula then drops of cyclohexamide solution 50 mg / liter and mix well so that sufficient quantity added to formation a thick paste.
- 3- Divided the sample into small pieces and then distributed on the surface of the filter paper placed on the Culture medium .
- 4- Incubate the plate in incubator at a temperature 28 C for a (21-7) days. We must provide moist conditions , by put container filled with water in the incubator .
- 5- On the third day examined the plate by dissecting microscope at 40X-20X to see fruiting bodies .