Isolation from soil

MIC -470

Hair baiting technique

- Experiment
- Isolation of keratinophilic fungi from soil
- Keratinophilic fungi are those fungi which inhabit soils rich in keratin.
- These fungi grow keratin substrates and degrade them.
- Keratin is found in hair, nails, hooves, skin and horns etc.

Isolation technique

- Collect soil in sterile polythene bag.
- Bring it to the laboratory.
- Half fill the Petri plates with soil.
- Moisten it with sterile distil water.
- Place sterile strands of hair on the soil
- Leave it covered in paper or dark place for 4 weeks
- Observe

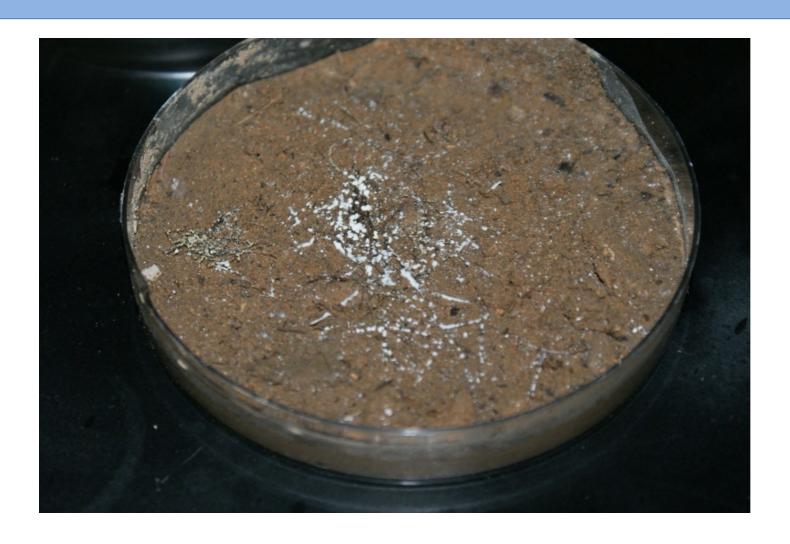
2 weeks growth on hair



4 weeks



Complete degrdation



- Experiment
- Pick one hair with visible growth and culture it on SDA, Mycosel agar and PDA.
- Observe the colony.
- Note its micro and macromorphology
- Identify