

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 distilled 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 degradation



- 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