

Monosporic Purification

Introduction

The purpose of this protocol is to isolate single spores from a spore suspension of fungi to screen for homokaryons.

Materials

- Spore suspension
- MilliQ water
- Agar plates with appropriate media and supplements
- Marker
- Eppendorf tube
- Optical Microscope with a mobile needle

Procedure

1. Dilute the spores from spore suspension into MilliQ water.
2. Drop a small amount of the diluted spore solution on the side of the plate and flip it so the solution flows vertically on the plate. With a marker draw a line where the solution flowed.
3. Using an Optical Microscope with a mobile needle, isolate at least 3 single spores on the other side of the plate.
4. Transfer them individually to a new plate before they mix (1-2 days).