

Spore suspensions

Introduction

Guide on making spore suspensions from filamentous fungi

Materials

- › Fully grown fungi plates (with spores)
- › drigalski
- › 96% ethanol
- › FireBoy
- › Sterile MilliQ
- › Sterile mira cloth
- › sterile falcon tubes
- › P1000 pipette and tips
- › scissors
- › Microscope
- › Counting chamber

Procedure

Spore suspension

1. Add mira cloth to a falcon tube.
2. Pour 2-3 ml of MilliQ onto a plate
3. Clean drigalski using ethanol and fire.
4. Let the drigalski cool off in the water before commencing the scraping. Then, carefully scrape off the spores from the plate. This should be done with the lid still on and VERY careully as the spores are hydrophobic and would much rather just fly around having fun than being suspended into the water.
5. When all of the spores have been suspended into the water, transfer the liquid to the mira cloth using a pipette with the tip cut off.
6. When this is done, count the spores in the microscope. Usually, a 1000x dilution is necessary.
7. Convert the number of spores seen in the 4 squares into the actual spore concentration using this formula (yields spores/ml):

$$\frac{\text{Number of spores}}{4} * \text{dilution} * 1000$$

$$0.004$$