Protocol Name: Re-isolating endophytes.
Category: Endophyte development
Date: 03/10/2018
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Source(s): Arnold, A. E. & Lutzoni, F. (2007) Diversity and host range of foliar endophytes: Are tropical leaves biodiversity hotspots? Ecology 88, 541-549

Time Required: Approx. 10 mins

Additional Notes: This protocol is adapted from Arnold and Lutzoni (2007) for use with young Arbidopsis seedlings.

Materials

- Agar plates relevant to the desired endophyte (TSA in our case).
- Plants (Arabidopsis seedlings in our case)
- Spreaders
- NaOH (50%)
- Ethanol (95-100%)
- Ethanol (70%)
- Petri dishes
- water

Procedure.

- Gently rinse plant with water.
- Place plant in a petri dish containing 95% ethanol for 10 seconds and gently shake.
- Place plant in petri dish containing 50% NaOH and gently shake for 1 minute.
- Place in petri dish containing 70% ethanol for 1 minute.
- In a sterile environment allow plant to slightly dry before cutting into desired segments.
- Using spreaders gently smear the extrusion from the plant tissue onto the growth media and incubate at the optimum temperature of your desired endophyte.