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Isolating Fusarium from plant material

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ABSTRACT

Protocol for isolating Fusarium (SDS) from soybean plants. A fresh sample is best. Incubating the root sample at 5-10 degrees Celsius encourages sporulation. Samples should be processed no later than 10 days after receiving for best isolation results. Once a pure culture is achieved, find next protocols for single spore culture.

OPEN  ACCESS



Protocol Citation: Jenna Moore 2023. Isolating Fusarium from plant material. **protocols.io**
<https://protocols.io/view/isolating-fusarium-from-plant-material-c4edyta6>

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Protocol status: Working
We use this protocol and it's working.






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PROTOCOL integer ID:
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5d 0h 7m

- 1 Wash root system.
- 2 Using pruners, remove small sections of the taproot and place into sterile petri dish. If necessary, use a scalpel or blade to cut sections into smaller pieces.
- 3 Rinse root sections in 20% bleach for  00:01:00, followed by sterile water for  00:01:00 2m
- 4 Place on sterile paper towels until dried (approximately  00:05:00). 5m
- 5 Plates 4-5 root sections onto APDA (with antibiotics). Incubate at room temperature.
 Room temperature
- 6 Observe growth after  120:00:00 days and hyphal tip transfer colonies onto fresh APDA. 5d
Note: *F. virguliforme* is slow growing.
- 6.1 After initial observations are recorded, use pruners to cut and discard aboveground plant material (keep material from soil-line down).