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🌐 Baermann Funnel Extraction

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

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Abstract

Baermann Funnel Extraction

Materials

Materials for sample preparation:
- Glass funnel
- Funnel stand
- Filter paper
- Tubing
- 2mm mesh sieve
- DI water bottles

Troubleshooting

Sample Preparation

`6d`

1 Sieve soil to 2mm

2 Weigh out 🧪 50 g soil in a weigh boat

3 Place tissue paper on top of Baermann funnel apparatus

4 Place weighed and sieved soil on top of filter paper

5 Fill Baermann funnel with DI water using a DI water bottle so that soil sample is saturated but not submerged in water

6 Cover all Baermann funnels with a plastic Uline

7 At 🕐 24:00:00 and 🕐 48:00:00 mark, check soil and refill any funnels with decreased water levels to prevent the soil from drying out.

`2d`

8 At 🕐 72:00:00 empty funnel over a 25um mesh sieve to collect nematodes

`1d`

9 Transfer the nematodes that are on the sieve into a labelled centrifuge tube using a **hot fixative**

Protocol
NAME
Fixative preparation for Baermann funnel extraction
CREATED BY
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10   Collect soil from top of Baermann funnel; dry and weigh to get gravimetric soil moisture content

11   Count the entire sample at 50x magnification using a dissecting scope

12   Identify 100 nematodes