Preparing DNA samples from mixed sand prior to extraction

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In 1 collection

1 Works for me dx.doi.org/10.17504/protocols.io.sv8ee9w

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1 Add 20 mL MilliQ water to pot

2 Remove plant, if any. Transfer to square petri dish.

3 Push a 50mL Falcon into the sand up to the 35 mL mark.

4 Tilt pot to a horizontal position and remove the falcon tube, retaining as much sand as possible.

Rotating the tube while removing it may help

5 Cap and wipe down the tube exterior using a paper towel with 70% EtOH before labelling with pot ID.

6 Fill tube with sand to the 40mL mark with MilliQ water

7 Vortex for 30 seconds

8 Pour through Miracloth into new 50ml tube. Discard the old tube.

9 Top up tube to 40 ml total volume with ultrapure water.

10 Centrifuge tube at 5000 x G for 5 minute.

11 Pour away supernatant.

12 Add 1ml water and vortex to resuspend.

13 Transfer to 1.5ml tube for extraction or storage. Dispose of the 50ml tube.