



DNA Extraction from Water Samples V.1

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This protocol was followed to extract DNA from potable and tailored water samples used to water various turf grasses in a greenhouse study. We closely followed the extraction protocol provided in the Qiagen DNeasy PowerWater Kit with a few modifications to account for low product yield.

Andrew Dominguez, Yanyan Zhang, Nicole Pietrasiak 2022. DNA Extraction from Water Samples. **protocols.io**

https://protocols.io/view/dna-extraction-from-water-samples-b4smqwc6

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Sample Prep

If water samples are stored at 8-80 °C allow time for samples to defrost depending on the volume. Large volumes can take a few hours to defrost.

DNA Extraction 2h

2

⊠ DNeasy PowerWater

with the

2h

DNA extraction was completed using Kit **Qiagen Catalog #14900-50-NF** following modifications:

• In step 1, the specific filters used were

₩ Whatman ME 24/21 STL Membrane Filters white (Mixed cellulose ester) black grid Millipore

Sigma Catalog #10408712

- In step 21, ■30 µL of Solution EB was added to increase DNA concentration
- Following step 21 the wait time was ⑤ 00:05:00 before moving on to step 22
- Following step 23, DNA extracts were stored at 8-80 °C
 - 2.1 A demonstration for folding a filter and inserting it into the Bead Tube can be found here.



