

Preparation of Zen Seagrass Samples for DNA Extraction:

All initial transfers of samples into the MoBio bead-beating tubes should be performed on the bench top in the presence of a flame.

1 Filters

The filters are cut in half and placed in two separate tubes. Each tube is labelled identically to the other. In each tube, the filter is folded in half multiple times such that it forms a vague triangle shape from the center of the round filter to the edge. These triangles are often folded in half once more to make trapezoids to aid fitting into the tube.



Vortex sample tube for 30 seconds, to help remove any organisms stuck to the outside of the filter into the liquid. Use **ethanol-flame sterilized** forceps and scissors to unfold and cut the **tip of each filter** half (from the two identically-labeled tubes) into the MoBio powersoil tube. **Resterilize the scissors and forceps with ethanol and flame** between filters. Using a pipette set between 250 and 500 ul transfer liquid into the MoBio powersoil tube until it is no more than **2/3 full**. If you have to compromise between putting in liquid and putting in filter tips (because tube is more than 2/3 full), liquid is preferable.

2 Soil

Vortex sample tube for 30 seconds, to insure sample is well homogenized before transfer. As carefully as possible, so as not to spill sample, use a small metal **ethanol-flame sterilized** scoopula or spatula to transfer sample into MoBio powersoil tube. Fill tube no more than **2/3 full** (so there is room for C1). **Rinse spatula/scoopula in small beaker of water** to remove visible sediment, then dip in **ethanol to flame sterilize** once more.

3 Leaf

Vortex sample tube for 30 seconds, to help remove any organisms stuck to the outside of the leaf into the liquid. Using a pipette set between 250 and 500 ul transfer as much liquid as possible into the MoBio powersoil tube until it is no more than **2/3 full** or all the liquid is used up.

4 Root

Vortex sample tube for 30 seconds, to help remove any organisms stuck to the outside of the roots into the liquid. Using a pipette set between 250 and 500 ul transfer as much liquid as possible into the MoBio powersoil tube until it is no more than **2/3 full** or all the liquid is used

up.

****Filled MoBio powersoil tubes may be stored at -20°C for up to 24 hours before adding C1****