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Protocol for Making Soil

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Protocol status: In development

We are still developing and optimizing this protocol

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Abstract

This protocol outlines 3 soil recipes for their corresponding plant species: *Phacelia parryi*, *P. campanularia*, and *Brassica rapa*. In addition to the recipes, it also details the soil mixing process.



Materials

Peat moss

Vermiculite

Perlite

Sand

Fertilizer (Osmocote Flower & Vegetable)

Water

Mixing shovel

Clear food grade bucket ~2 gallons for mixing soil



Soil Recipe for *Phacelia campanularia*

- 1 1 part peat moss
0.5 part vermiculite
1.5 part sand
3 parts perlite
3 tbsp of fertilizer per 2 gallons of soil

Soil Recipe for *Brassica rapa*

- 2 1 part peat moss
1 part vermiculite
1 part perlite
3 tbsp of fertilizer per 2 gallons of soil

Soil Recipe for *Phacelia parryi*

- 3 1 part peat moss
1 part vermiculite
1 part sand
2 part perlite
3 tbsp of fertilizer per 2 gallons of soil

Soil Mixing

- 4 Depending on what plant you desire to plant, follow the corresponding soil recipe to measure all required parts except perlite and fertilizer and place all parts within a sterile container.
- 5 Using gloved hands or a shovel thoroughly mix the soil until there are not hidden pockets of unmixed material.
- 6 If the recipe calls for perlite, add the perlite parts to the container and rinse with DI water to minimize dust. Once wet, repeat step 5.
- 7 Depending on the total number of gallons of soil produced, measure out the correct amount of fertilizer and add it to the soil container. Then, repeat step 5.
- 8 Once evenly mixed, your soil is now ready to be used for seed planting and transplanting.