

Soilwater: GR+ Medium Recipe

Directions

The basic garden-type soilwater; includes a pinch of CaCO_3 , which is added to the soil and water prior to steaming; suitable for most phototrophic freshwater algae. Optional ingredients: add vitamin B12 to cultures of Volvox; a pinch of $\text{NH}_4\text{MgPO}_4 \cdot 6\text{H}_2\text{O}$ added to soilwater cultures of Botryococcus, Synechococcus and some Euglenoids enhances growth and to LB 826 Gonium pectorale increases the numbers of 16-celled colonies formed.

For 200 mL Total

1. Combine all components listed.
2. Cover the medium container and steam for 2 consecutive days, 3 hours on each day. Pasteurization is a gradual rising of temperature to approximately 95°C in 15 minutes. Then increased just over 98°C for the 3 hour duration. Cooling occurs gradually at room temperature.
3. Refrigerate 24 hours or more and bring to room temperature before using.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	Green House Soil	1 tsp/200 mL dH ₂ O		
2	CaCO ₃ (optional) (Fisher C 64)	1 mg/200 mL dH ₂ O		0.05 mM