

1/5 Soil+Seawater Medium Recipe

Directions

For some marine and brackish-water algae requiring salinities at 6 ppt, glass-distilled water and pasteurized, filtered seawater are combined prior to steaming, such that 1/5-soil+seawater contains seawater combined with distilled water 1:4.

For 200 mL Total

1. Combine all components.
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 (10° C) 24 hours or more and bring to room temperature before using.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	Green House Soil	1 tsp		
2	CaCO ₃ (optional) (Fisher C 64)	1 mg		0.05 mM
3	Pasteurized Seawater	40 mL		
4	dH ₂ O	160 mL		