Modified Desmidiacean Medium Recipe

Directions

The final medium is prepared on a tube by tube basis, using 15 mL glass tubes, stoppered with rubber-lined screw caps.

For 1 L Total

Liquid media:

- 1. To approximately 900 mL of dH₂O add the first 7 components in the order specified while stirring continuously.
- 2. Bring total volume to 1 L with dH_2O .
- 3. Cover and autoclave medium.
- 4. Allow to cool.
- 5. Add 1 sterile barley grain per test tube then store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	KNO ₃ (Baker 3190)	10 mL/L	1 g/100 mL	0.9 mM
2	(NH ₄) ₂ HPO ₄ (Fisher A686)	5 mL/L	0.2 g/100 mL	0.075 mM
3	MgSO ₄ ·7H ₂ O (Sigma 230391)	10 mL/L	0.1 g/100 mL	3.3 μΜ
4	CaSO ₄ ·2H ₂ O saturated solution (Mallinckroft 4300)	10 mL/L		
5	Soilwater: GR+ Medium	20 mL/L		
6	Soilwater: Peat Medium	10 mL/L		
7	MWC Metal Solution	5 mL/L		
8	Barley grains autoclaved	1 grain/10 mL		