

DYIII Medium Recipe

Directions

Modification of Sandgren's recipe. Suitable for xenic cultures of freshwater chrysophytes.

For 1 L Total

1. To approximately 950 mL of dH₂O add each of the components in the order specified (except vitamins) while stirring continuously.

2. Adjust the pH to 6.7.

3. Bring the total volume to 1 L with dH₂O.

*For 1.5% agar medium add 15 g of agar into the flask; do not mix.

4. Cover and autoclave medium.

5. When cooled add vitamins.

*For agar medium add vitamins, mix, and dispense before agar solidifies.

6. Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	MES (Sigma M-8250)	1.95 g/L		10 mM
2	MWC Metal Solution	10 mL/L		
3	CaCl ₂ ·2H ₂ O (Sigma C-3881)	1 mL/L	2 g/100 mL	0.14 mM
4	MgSO ₄ ·7H ₂ O (Sigma 230391)	1 mL/L	7.4 g/100 mL	0.3 mM
5	Na ₂ glycerophosphate·5H ₂ O (Sigma G 6501)	1 mL/L	1 g/100 mL	0.03 mM
6	NaNO ₃ (Fisher BP360-500)	1 mL/L	2 g/100 mL	0.24 mM
7	Na ₂ SiO ₃ ·9H ₂ O (Sigma 307815)	1 mL/L	1.5 g/100 mL	0.05 mM
8	NH ₄ NO ₃ (Fisher A676)	1 mL/L	1 g/100 mL	0.12 mM
9	KCl (Fisher P 217)	1 mL/L	1 g/100 mL	0.13 mM
10	Vitamin B₁₂	1 mL/L		

11 Biotin Vitamin Solution 1 mL/L

12 Thiamine Vitamin Solution 1 mL/L