

Modified COMBO Medium Recipe

Directions

This modified medium was derived from Guillard and Lorenzen's (1972) WC medium. This medium is used to support growth of cyanobacteria, cryptophytes, green algae, and diatoms.

For 1 L Total

1. To approximately 900 mL of dH₂O add each of the components in the order specified while stirring continuously.
2. Adjust pH to 7.8.
3. Bring total volume to 1 L with dH₂O.
4. Add vitamins to flask.
5. **Do not autoclave medium! Filter sterilize only.**
6. Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	NaNO ₃ (Fisher BP360-500)	10 mL/L	85.01 g/L	10 mM
2	CaCl ₂ ·2H ₂ O (Sigma C-3881)	10 mL/L	36.76 g/L	2.5 mM
3	MgSO ₄ ·7H ₂ O (Sigma 230391)	10 mL/L	36.97 g/L	1.5 mM
4	NaHCO ₃ (Fisher S 233)	10 mL/L	12.6 g/L	1.5 mM
5	Na ₂ SiO ₃ ·9H ₂ O (Sigma 307815)	10 mL/L	28.42 g/L	1 mM
6	K ₂ HPO ₄ (Sigma P 3786)	10 mL/L	8.71 g/L	0.5 mM
7	H ₃ BO ₃ (Baker 0084)	10 mL/L	24 g/L	3.9 mM
8	KCl (Fisher P 217)	10 mL/L	7.45 g/L	1 mM
9	Algal Trace Elements Solution	10 mL/L		
10	Vitamin B₁₂	1 mL/L		
11	Biotin Vitamin Solution	1 mL/L		

12	Thiamine Vitamin Solution	1 mL/L		
13	CR1 Soil	1 cc		