

Bold 3N Medium Recipe

Directions

Modification of Bold's recipe. General purpose freshwater medium used for xenic cultures, especially blue-greens and reds.

For 1 L Total

1. To approximately 850 mL of dH₂O, add each of the components in the order specified (except vitamins) while stirring continuously.

2. 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.

3. Cover and autoclave medium.

4. When cooled add Vitamin B₁₂.

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

5. Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	NaNO ₃ (Fisher BP360-500)	30 mL/L	10 g/400mL dH ₂ O	8.82 mM
2	CaCl ₂ ·2H ₂ O (Sigma C-3881)	10 mL/L	1 g/400mL dH ₂ O	0.17 mM
3	MgSO ₄ ·7H ₂ O (Sigma 230391)	10 mL/L	3 g/400mL dH ₂ O	0.3 mM
4	K ₂ HPO ₄ (Sigma P 3786)	10 mL/L	3 g/400mL dH ₂ O	0.43 mM
5	KH ₂ PO ₄ (Sigma P 0662)	10 mL/L	7 g/400mL dH ₂ O	1.29 mM
6	NaCl (Fisher S271-500)	10 mL/L	1 g/400mL dH ₂ O	0.43 mM
7	P-IV Metal Solution	6 mL/L		
8	Soilwater: GR+ Medium	40 mL/L		
9	Vitamin B₁₂	1 mL/L		

