

# Modified Bold's 3N Medium

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

## Directions

For 1 Liter Total (pH 6.2)

- To approximately 850 mL of dH O, add each of the components in the order specified (except vitamins) while stirring continuously.
- Bring the total volume to 1 L with dH O.
  - \*For 1.5% agar medium add 15 g of agar into the flask; do not mix.*
- Cover and autoclave medium.
- When cooled add vitamins.
  - \*For agar medium add vitamins, mix, and dispense before agar solidifies.*
- Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	NaNO <sub>3</sub> (Fisher BP360-500)	30 mL/L	10 g/400mL dH <sub>2</sub> O	8.82 mM
2	CaCl <sub>2</sub> ·2H <sub>2</sub> O (Sigma C-3881)	10 mL/L	1 g/400mL dH <sub>2</sub> O	0.17 mM
3	MgSO <sub>4</sub> ·7H <sub>2</sub> O (Sigma 230391)	10 mL/L	3 g/400mL dH <sub>2</sub> O	0.3 mM
4	K <sub>2</sub> HPO <sub>4</sub> (Sigma P 3786)	10 mL/L	3 g/400mL dH <sub>2</sub> O	0.43 mM
5	KH <sub>2</sub> PO <sub>4</sub> (Sigma P 0662)	10 mL/L	7 g/400mL dH <sub>2</sub> O	1.29 mM
6	NaCl (Fisher S271-500)	10 mL/L	1 g/400mL dH <sub>2</sub> 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		
10	Biotin Vitamin Solution	1 mL/L		
11	Thiamine Vitamin Solution	1 mL/L		