

# P49 Medium Recipe

## Directions

Suitable for some volvocales, especially Chlamydomonas and Pandorina, which may benefit primarily from the ammonium component, modified volvox medium.

For 1 L Total

1. To approximately 900 mL of dH<sub>2</sub>O, add each of the components in the order specified (except vitamins) while stirring continuously.

2. Adjust the pH to 7.0.

3. Bring the total volume to 1 L with dH<sub>2</sub>O.

\*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	MgSO <sub>4</sub> ·7H <sub>2</sub> O (Sigma 230391)	1 mL/L	4 g/100 mL dH <sub>2</sub> O	0.16 mM
2	Na <sub>2</sub> glycerophosphate·5H <sub>2</sub> O (Sigma G 6501 )	1 mL/L	5 g/100 mL dH <sub>2</sub> O	0.16 mM
3	KCl (Fisher P 217)	1 mL/L	5 g/100 mL dH <sub>2</sub> O	0.67 mM
4	Glycylglycine (Sigma G 1002)	10 mL/L	5 g/100 mL dH <sub>2</sub> O	3.8 mM
5	<a href="#">P-IV Metal Solution</a>	6 mL/L		
6	NH <sub>4</sub> NO <sub>3</sub> (Fisher A676)	10 mL/L	1 g/100 mL dH <sub>2</sub> O	1.2 mM
7	CaCl <sub>2</sub> ·2H <sub>2</sub> O (Sigma C-3881)	10 mL/L	0.74 g/100 mL dH <sub>2</sub> O	0.5 mM
8	Yeast extract (Bacto, Difco)	0.2 g/L		
9	Tryptone (Sigma T 9410))	0.4 g/L		

10	Vitamin B <sub>12</sub>	1 mL/L		
11	Biotin Vitamin Solution	1 mL/L		
12	Thiamine Vitamin Solution	1 mL/L		