

Volvocacean-3N Medium Recipe

Directions

R.C. Starr's modification of Volvocacean medium (E.G. Pringsheim, pers. Comm.), i.e., the amount of $(\text{NH}_4)_2\text{HPO}_4$ is increased 3-fold, for axenic cultures of Eudorina (1204, 1205 and 1206) and other colonial volvocales.

For 1 L Total

1. To approximately 900 mL of dH₂O, add the following components in the order listed except Euglena medium while stirring continuously.
 2. Adjust the pH to 6.0
 3. Bring total volume to 1 L with dH₂O.
 4. Discard 200 mL of this medium.
 5. Transfer 200 mL of Euglena Medium into the flask.
- * For agar pour 10 g of agar into the flask; do not mix.
6. Autoclave medium.
 7. Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	KNO ₃ (Baker 3190)	1 mL/L	10 g/100 mL dH ₂ O	0.98 mM
2	MgSO ₄ ·7H ₂ O (Sigma 230391)	1 mL/L	2 g/100 mL dH ₂ O	0.081 mM
3	(NH ₄) ₂ HPO ₄ (Fisher A686)	3 mL/L	2 g/100 mL dH ₂ O	0.453 mM
4	CaSO ₄ ·2H ₂ O (Mallinckroft 4300)	30 mL/L	0.2 g/100 mL dH ₂ O	0.35 mM
5	P-IV Metal Solution	6 mL/L		
6	Euglena Medium	200 mL/L		