

# DYV Medium Recipe

Modification of Andersen's recipe. Suitable for xenic cultures of freshwater chrysophytes and synurophytes. Component list is the same as DYIII Medium with the addition of 1 mL DYV Metal Solution

## Directions

### For 1 L Total

1. To approximately 950 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 6.7.
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	MES (Sigma M-8250)	1.95 g/L		10 mM
2	MWC Metal Solution	10 mL/L		
3	CaCl <sub>2</sub> ·2H <sub>2</sub> O (Sigma C-3881)	1 mL/L	2 g/100 mL	0.14 mM
4	MgSO <sub>4</sub> ·7H <sub>2</sub> O (Sigma 230391)	1 mL/L	7.4 g/100 mL	0.3 mM
5	Na <sub>2</sub> glycerophosphate·5H <sub>2</sub> O (Sigma G 6501)	1 mL/L	1 g/100 mL	0.03 mM
6	NaNO <sub>3</sub> (Fisher BP360-500)	1 mL/L	2 g/100 mL	0.24 mM
7	Na <sub>2</sub> SiO <sub>3</sub> ·9H <sub>2</sub> O (Sigma 307815)	1 mL/L	1.5 g/100 mL	0.05 mM
8	NH <sub>4</sub> NO <sub>3</sub> (Fisher A676)	1 mL/L	1 g/100 mL	0.12 mM
9	KCl (Fisher P 217)	1 mL/L	1 g/100 mL	0.13 mM
10	DYV Metal Solution	1 mL/L		
11	Vitamin B <sub>12</sub>	1 mL/L		
12	Biotin Vitamin Solution	1 mL/L		
13	Thiamine Vitamin Solution	1 mL/L		