

1% F/2 Recipe

Directions

For 1 L Total

1. Measure 285 mL of non-pasteurized seawater (30-35 ppt).
2. Add 600 mL of dH₂O to bring the volume to approximately 900 mL.
3. Add each of the components in the order specified (except vitamins) while stirring continuously.
4. Bring up to 1 L total volume with Pasturized Seawater.

*For 1.5% agar medium: add 15 g of agar into the flask; do not mix.

5. Cover and autoclave medium.

6. Add sterile vitamins to cooled medium.

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

7. Store at refrigerator temperature.

#	Component	Amount	Stock Solution Concentration	Final Concentration
1	Seawater (non-sterilized)	285 mL		
2	dH ₂ O	600 mL		
3	NaNO ₃ (Fisher BP360-500)	1 mL/L	7.5 g/100 mL dH ₂ O	880 µM
4	NaH ₂ PO ₄ ·H ₂ O(MCIB 742)	1 mL/L	0.5 g/100 mL dH ₂ O	36 µM
5	Na ₂ SiO ₃ ·9H ₂ O (Sigma 307815)	1 mL/L	2 g/100 mL dH ₂ O	70 µM
6	Trace Metals Solution	1 mL/L		
7	Vitamin B₁₂	1 mL/L		
8	Biotin Vitamin Solution	1 mL/L		
9	Thiamine Vitamin Solution	1 mL/L		