

f/2 Vitamin Solution

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Abstract

Modified from Bigelow: NCMAM Center. Components to prepare 1 L of f/2 vitamin solution.

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Guidelines

First, prepare primary stock solutions. To prepare final solution, begin with 950 mL of dH₂O (autoclaved), dissolve the thiamine, add the amounts of the primary stocks indicated, and bring final volume to 1.0 liter with dH₂O. Filter sterilize. Store in refrigerator or freezer.

Before start

Prepare primary stock solutions (in dH₂O) of the following:

- biotin 0.1 g/L
- cyanocobalamin: 1.0 g/L

Filter sterilize through a 0.2 micron PES membrane and store frozen in 1 mL aliquots.

Protocol

Step 1.

Measure 950 mL dH₂O into a 1 L glass bottle.

Step 2.

Dissolve 200 mg thiamine·HCl (vit. B1) into the bottle.

Step 3.

Add 10 mL primary stock solution of biotin (vit. H) (0.1 g/L in dH₂O) into the bottle.

Step 4.

Add 1 mL primary stock solution of cyanocobalamin (vit. B12) (1.0 g/L in dH₂O) into the bottle.

Step 5.

Bring the final volume to 1 L with dH₂O.

Step 6.

Filter sterilize final vitamin solution through a 0.2 micron PES membrane.

Step 7.

Store frozen in 0.5 mL aliquots.
