

RECIPES

General considerations:

- All finished products must bear the initials of the person who made them, and the dates on which they were made.
- Always use clean glassware, plasticware, or ziplock bags.
- If you are not sure how to make something, ask Dave or another senior lab member

Methyl Blue aliquots

Dissolve 25 mg of Methyl Blue into 500ml of nano water. Mix well. Aliquot into 50ml centrifuge tubes and refrigerate.

Tricaine

To make 1 L:

- start with ~900 ml nano water
- add 4 grams of MS222 (3-amino benzoic acid ethylester)
- add 7.5 g sodium bicarbonate powder
- fill to 1000 ml with nano water
- mix well, check pH (pH7-8) and adjust if necessary
- label with your name and date; refrigerate

Working stocks of tricaine must be in dark bottles and labeled with the date they are filled, initials of who filled them, and a label saying "Use within 2 weeks".

Fish Food

To make dry fish food, wear gloves and mix the components in a clean 9 liter tank. Once mixed, divide between two large ziplock bags, label, and store at 4 °C.

Bags of prepared fish food must be labeled with the initial of who prepared them, the date, and an expiration date 6 months in the future.

Juvenile food:

- 200 grams Larval AP 100 (100–150 μm size)
- 100 grams spirulina powder
- 1000 grams ArteMac #2 (100–200 μm size)

Adult food:

- 200 grams Larval AP 100 (250–450 μm size)
- 100 grams spirulina powder
- 1000 grams ArteMac #4 (300–500 μm size)

Salt Waters

There are four different kinds of salt water for different applications. Make sure you are using the correct recipe! Recipes are scaled according to the typical container volume used. Weight/volume percent is given in parentheses (i.e., grams solute per 100 ml).

Rotifer Water

280 grams Instant Ocean salt per 5 gallons RO water (1.48% w/v)

Larval Fish Water

168 grams Instant Ocean salt per 10 gallons RO water (0.44% w/v)

Quarantine Fish Water

Add 1.2 grams Chloram-X powder to 10 gallons of tap water; pH to 7.4 by addition of sodium bicarbonate powder

(Former recipe: 10 grams Instant Ocean salt per 1 gallon RO water (0.264% w/v))

Brine Shrimp Hatching Water

160 g Instant Ocean per 8 liters RO water (2.1% w/v)

ChlorAm-X/bicarb

Used for continuous dosing of rotifer cultures and added to newly harvested rotifers prior to feeding fish.

- 10% (w/v) ChlorAm-X powder
- 5% (w/v) sodium bicarbonate (baking soda)
- RO water

fill 5 gallon drink dispenser to ~4 gallons with RO water, add 2 kg ChlorAm-X and 1 kg sodium bicarbonate. Fill up to 5 gallons and stir into solution.