

## 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 acidethylester)
- add 7.5 g sodium bicarbonate powder
- fill to 1000 ml with nano water
- mix well, check pH (pH7-8) and adjust if necessary; refrigerate

### 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.

#### Juvenile food:

- 200 grams Larval AP 100 (100–150  $\mu\text{m}$  size)
- 200 grams crushed spirulina flakes
- 1000 grams ArteMac #2 (100–200  $\mu\text{m}$  size)

#### Adult food:

- 200 grams Larval AP 100 (250–450  $\mu\text{m}$  size)
- 200 grams crushed spirulina flakes
- 1000 grams ArteMac #4 (300–500  $\mu\text{m}$  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

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.