

How To Make Tricaine Solution

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University of Minnesota Zebrafish Core Facility

The University of Minnesota Zebrafish utilizes TRICaine-S (Tricaine Methanesulfonate) to anesthetize fish for fin clips, embryos for imaging as well as embryos to be fixed. The product we purchase come in powder form from Western Chemical Inc. and it is a pharmaceutical grade reagent in compliance with IACUC requirements. The expiration date is listed on the cap of the bottle, which is stored at room temperature on the shelf in the injection room (5-225 MCB).

Make tricaine solution for anesthetizing fish by combining the following in a glass bottle with a screw cap:

400 mg Tricaine-S Powder
97.9 ml Milli-Q water
2.1 ml 1M Tris (pH 9)

Adjust the pH of the tricaine solution to ~ 7 . Store this solution in the small refrigerator in the hallway outside of the fishroom.

Make sure the bottle is labeled with the reagent, concentration, pH, date made and initials of who made it before you put it in the fridge for use.

If using for survival studies, a new bottle of tricaine solution should be tested on non-experimental fish first.