

Institutional Animal Care and Use Committee

THE UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

IACUC Approved Recipe for MS-222

INGREDIENTS

- MS-22 powder
- Artificial pondwater mixture
- Sodium Bicarbonate
- pH paper

MIXING

1. Dissolve MS-22 in artificial pondwater (20% Holtfreter's Salts).
2. Adjust the pH to about 7.4 using only powdered Sodium Bicarbonate.
3. Use a 5 pad pH paper to monitor pH.

NOTES

- MS-222 should be made fresh weekly.
- For surgical purposes, fresh solution should be made for every surgery to minimize contamination and infection.
- The concentration used for anesthesia is 0.2 – 0.5% depending on the animal size.
- Use 10% strength of anesthetizing solution (most frequently 0.025% (wt/vol) MS-222) as an analgesic to reduce pain and surgery stress for 20 minutes right after surgery.