

## Recommended Anesthetic Agents: *Xenopus*

Xenopus (laevis) - African Clawed Frog	Anesthesia			
	Name / Dose	Route	Maximum Volume	Needle Gauge
	MS222 - Frog 500mg/L-2g/L (Buffered to 7.0-7.5 pH with either: 34mL 0.5M Na <sub>2</sub> HPO <sub>4</sub> to 2L of 1g/L MS222 <u>or</u> buffered with NaHCO <sub>3</sub> at 120-1050mg/L)	Immersion	NA	NA
	MS222 - Tadpole 200-500mg/L (Buffered to 7.0-7.5 pH with either: 34mL 0.5M Na <sub>2</sub> HPO <sub>4</sub> to 2L of 1g/L MS222 <u>or</u> buffered with NaHCO <sub>3</sub> at 120-1050mg/L)	Immersion	NA	NA
	Isoflurane (3 ml) + 3 ml Ky Jelly + 1.5 ml Water; <i>Mix then cover 2/3 of one side of 1x1 cotton gauze square w/ impermeable backing and place the frog in a dry container then place the square on the animal's back. Remove the gauze square when anesthetized to prevent overdose. <b>NOTE: For short term procedures only. Must use chemical fume hood to mix &amp; deliver.</b></i>	Cutaneous	Consult a veterinarian	Consult a veterinarian

References:

- Fish et al, Anesthesia and Analgesia in Laboratory Animals, 2nd Edition
- Hawk et al, Formulary for Laboratory Animals, 3rd Edition
- Laboratory Animal Medicine ACLAM, 3rd Edition
- Plumb, Veterinary Drug Handbook, 3rd Edition