

Ivermectin itself is highly insoluble in water, but I imagine most of us are using Merial brand "Ivomec" or one of the generic forms, where the ivermectin has already diluted in propylene glycol. Propylene glycol is miscible with water, so I suppose using water to further dilute "Ivomec" might mix just enough to get you by (seems to work for others here). I've never had any adverse reactions when using propylene glycol to dilute "Ivomec", but I have only done so for use in birds and mammals. I wouldn't be entirely opposed to using topical ivermectin on amphibians, if it were warranted, but so far I have only been involved in cases where other drugs used orally worked well.

After writing the above, one of our veterinarians walked by, so I asked him his opinion on diluting "Ivomec" with sterile water for injection. He said it isn't possible to use water and get proper dilutions since the ivermectin won't go into solution. Personally, if I were using a drug like ivermectin on an amphibian (especially topically where the amount absorbed is already at question), I would want to be sure my solutions were 100% correct. The solubility issue is why I have always used propylene glycol to make ivermectin dilutions, but now that Kevin mentioned batches of it contaminated with antifreeze I've got yet another worry in life. Thanks Kevin. ;-)

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Here at the Desert Museum, we have been using Ivermectin on amphibians both topically and IM with very good results. Any mortality we have seen, was always due to inadvertant overdosing. We do use propylene glycol as the dilution agent. When a frog is tiny, less than 5 gr, we administer it topically. This has worked on newly emerged *Bufo retiformis* and *Gastrophryne olivacea* which were positive for some sort of Stroglyoides worms.

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