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Center for Biomedical Research / IACUC Standard Operating Procedure - Guidelines

Use of Non-Pharmaceutical Grade Compounds in Animals

Guidelines:

- Investigators are expected to use pharmaceutical-grade medications whenever they are available, even in acute procedures.
- Medications and anesthetics/analgesics/euthanasia agents must be pharmaceutical grade.
- All injected compounds and diluents must be sterile when used for survival animal procedures.
- Diluents do not need to be pharmaceutical grade but must be sterile.
- Experimental compounds do not need to be pharmaceutical grade when used in research paradigms, as opposed to being used as therapeutic agents.
- Investigators should consider relevant animal welfare and scientific issues including safety, efficacy, and the inadvertent introduction of new variables when using non-pharmaceutical grade compounds.
- Exceptions to these guidelines must be justified and submitted to the IACUC for review and may be granted for reasons such as scientific necessity or nonavailability of an acceptable veterinary or human pharmaceutical-grade product.
- Cost savings alone are not an adequate justification for using nonpharmaceutical grade compounds in animals.

NOTE: "Recent exorbitant cost increases of pentobarbital have placed it logistically into the unavailable category. Pentobarbital from a reagent or analytical-grade powder, properly prepared by a pharmacist or other knowledgeable individual (e.g., chemist, veterinarian, researcher), with assurance of appropriate storage and handling, and approval by the IACUC, is acceptable." [March 2012 NIH/OLAW Webinar].

If you would like to use non-pharmaceutical grade pentobarbital but were previously approved for only pharmaceutical grade, please submit a Change in Protocol request, including your handling practices and a justification that quotes the pricing of pharm grade pentobarbital.

References:

USDA Animal Welfare Act:

http://www.aphis.usda.gov/animal_welfare/downloads/policy/policy3.pdf

NIH Office of Laboratory Animal Welfare:

http://grants.nih.gov/grants/olaw/faqs.htm#f4