

### **IACUC Approved Recipe for Sodium Pentobarbital**

#### Ingredients:

6 grams sodium pentobarbital  
10 ml ethanol (95%)  
40 ml propylene glycol USP  
qs to 100 ml with 0.9% saline

1. Dissolve the pentobarbital powder in the ethanol.
  2. Add 25 ml of saline (but only after the pentobarbital is completely dissolved), mix thoroughly.
  3. Add 40 ml propylene glycol, mix.
  4. Bring to final volume (100 ml) with 0.9% saline.
- The pentobarbital concentration in the final solution is 60 mg/ml. Standard dose of 50 mg/kg i.p. in rats.

### **NOTES**

1. Stock solutions must be protected from light and maintained at 4°C no longer than 6 months.
2. Stock solutions must be passed through a sterile 0.2 micron filter prior to being stored.
3. Stock solutions must be prepared and stored in sterile tubes.
4. Working solutions can be prepared and maintained similar to stock solutions, but can be stored at room temperature for up to 30 days.
5. Transfer of solutions must utilize sterile supplies and techniques (e.g. sterile needles and syringes).
6. **All containers must be labeled with material name, concentration, date prepared, storage requirements, expiration date, and the initials of the person making the solution.**
8. Use must be recorded similar to other controlled substances.
9. Standard procedures for monitoring plane of anesthesia apply and supplemental dosing is to be given as needed.