• **Avertin (2, 2, 2-Tribromoethanol)**

This is prepared as a 1.2% solution and used in mice at a dosage rate of 0.2 ml/10 grams body weight which approximates 240 mg/kg. This compound is subject to photo degradation and should be stored at 4°C in the dark, or prepared fresh before use.

• **Avertin Stock solution:**

  25 grams avertin (2, 2, 2-Tribromoethanol) [Sigma-Aldrich, #T4,840-2]
  15. 5 ml tert-Amyl Alcohol (2-methyl-2-butanol) [Fisher, #A730-1]
  Mix ~12 hours in a dark bottle at room temperature. [1600 mg/ml]

• **Working solution:**

  0.5 ml Avertin stock
  39.5 ml 0.9% saline (NaCl)
  Mix in dark container. Filter sterilize and store at 4°C. [20 mg/ml]

• **Dosages:**

  - Embryo transfers: 0.45 to 0.55 ml IP
  - Biopsies/Milking: 0.5 to 1.0 ml IP
  - Sacrifices: ~1.0 ml IP

  • It will take the animal ~5 minutes to become fully anesthetized.
  • An additional 0.1 to 0.2 ml of Avertin can be given as necessary.
  • The animal will remain anesthetized for ~20 minutes.

• **References:**

  Papaioannou VE, Fox JG. Efficacy of tribromoethanol anesthesia in mice. Lab Anim Sci 1993 Apr;43(2):189-92


• **Other links:**


  [http://iacuc.yale.edu/policies/avertin.html](http://iacuc.yale.edu/policies/avertin.html)