

## **AVERTIN**

100% stock Avertin

Mix: add tribromoethanol to tertiary amyl alcohol and dissolve by heating and stirring. Add distilled water and continue until the solution is well mixed. Store wrapped in foil or in amber glass bottle (light sensitive solution) at 4 °C.

Solution may have to be warmed to dissolve. Mixture should be clear.

10g tribromoethyl alcohol (2, 2, 2 tribromoethanol), Aldrich T4,840-2

10ml tertiary amyl alcohol (2 methyl-2-butanol), Aldrich 24,048-6

Tribromoethanol is soluble in water (1:30 at 40 °C). Aqueous solutions are unstable and decompose to hydrobromic acid and dibromacetaldehyde, which is very irritant.

Consequently a fresh 2.5% working stock Avertin solution should be prepared weekly.

For use in mice, dilute the 100% to 2.5% (1:40) using diluent or isotonic saline.

Diluent recipe:

0.8% NaCl

1mM Tris (pH 7.4)

0.25mM EDTA

Check the pH. Adjust to pH 7.4.

To make 50 ml 2.5% Avertin, add 1.25 ml 100% to 48.75 ml liquid diluent. Alternatively, a 1.25% Avertin solution may be used to minimize the incidence of peritonitis.

Filter .22 micron

Store 4 °C, foil wrapped or in amber bottle

Dosage for mice may is 250-500 mg/kg i.p.

For an i.p. dose of 250 mg/kg the volume of injection for the 2.5% Avertin stock is 10 ml/kg and that for the 1.25% Avertin stock is 20 ml/kg.

Dosage should be redetermined each time a new 100% stock is made up. Test for adequate effect in a few mice before choosing dose. Allow 5-10 min for onset of effect.