

**Preparation of bone fragments for the  
transfer of the hematopoietic microenvironment**  
(unknown)

**Equipment:**

Beaker  
Stir plate & stir bar  
74-120  $\mu\text{m}$  sieve

**Reagents:**

Distilled water  
Absolute Ethanol  
Ether  
1 N HCl

**Method:**

1. Remove ends of femur and flush out marrow.
2. Soak femur in distilled water for 2 hours with constant stirring, changing the water every 40 minutes.
3. Place the femur in 100% ethanol for 1 hour with constant stirring.
4. Place the femur in ether for 30 minutes with constant stirring.
5. Using a mortar and pestle, crush the bone.
6. Pass the crushed bone fragments through a 74-120  $\mu\text{m}$  sieve to remove chunks.
7. Treat the crushed bone with 0.5 N HCl for 6 hours.
8. Treat the crushed bone with distilled water for 2 hours with constant stirring, changing the water every 40 minutes.
9. Wash the bone in 100% ethanol for 1 hour with constant stirring.
10. Place the crushed bone in ether for 30 minutes with constant stirring.
11. Air-dry the crushed bone.
12. For culturing, place approximately 10 mg of bone in each tube with culture media.