Sonication

Introduction

Cell disruption method for releasing intracellular proteins.

Materials

- 50mM sodium phosphate or Tris buffer
- Ethanol Spray
- Falcon tubes
- Pippettes
- Soniprep 150 Ultrasonic disintegrator

Procedure

Sonication

1. Resuspend cell pellet in a 50mL falcon tube using buffer at 10mL/g wet cell weight. This buffer should be: 50mM sodium phosphate, pH7.5, 300mM NaCl, 20mM imidazole + single tablet of EDTA-free protease inhibitor (must all be at 4c). **Alternatively just use Tris. Ensure sample remain on ice.**
2. Spray nozzle with ethanol and wipe.
3. Keeping the sample in ice, place it into the sonicator with nozzle halfway through sample liquid.
4. Adjust to **5 Cycles, 30 On, 30 Off** and press start.
5. Once sample if finished sonicating, remove it from the sonicator then spray the nozzle with ethanol and wipe before placing the next sample in.