

Ethanol Precipitation of DNA

Reagents Needed:

- 3 M sodium acetate, pH 5.2 or 5 M ammonium acetate
- DNA
- 100% ethanol (molecular biology grade)

Protocol

1. Measure the volume of the DNA sample.
2. Add 1/10 volume of sodium acetate, pH 5.2 (final concentration of 0.3 M)
 - a. These amounts assume that the DNA is in water only; if DNA is in a solution containing salt, adjust salt accordingly to achieve the correct final concentration.
3. Mix well.
4. Add 2 to 2.5 volumes of cold 100% ethanol (calculated after salt addition).
5. Mix well.
6. Place on ice or at -20°C for >20 minutes.
7. Spin at maximum speed in a microcentrifuge for 10-15 min at 4°C
8. Carefully decant supernatant.
9. Add 1 ml 70% ethanol. Mix. Spin at maximum speed in a microcentrifuge for 5 min at 4°C . Carefully decant supernatant.
10. Air dry, briefly vacuum dry, or spin briefly in a RT centrifuge with cap open to dry pellet.
11. Resuspend pellet in the appropriate volume of water