DNA precipitation (To concentrate DNA sample)

- Reagents:
  • 3 M sodium acetate pH 5.2 or 5 M Ammonium or Sodium acetate
  • DNA solution
  • 100% ethanol (ice cold) or -20 degree Celsius
  • 70% ethanol kept on 4 degree Celsius
- Procedure:
  1. Measure the volume of the DNA sample.
  2. Add 1/10 volume of sodium or potassium acetate, pH 5.2
  - These amounts assume that the DNA is in TE only; if DNA is in a solution containing salt, adjust salt accordingly to achieve the correct final concentration.
  3. Mix well vortex.
  4. Add 2 volumes of ice cold 100% ethanol.
  5. Mix well by vortex.
  6. Place on ice or at -80 degrees C for 30 minutes. Or at -20 overnight.
  7. Spin a maximum speed in a microfuge 10-15 min.
  Check for DNA pellet little opaque type
  8. Carefully decant supernatant.
  9. Add 500ul 70% ethanol. Mix gentely. Carefully decant supernatant. Wash step
  10. Air dry pellet.
  11. Resuspend pellet in the appropriate volume of TE or water once is fully dried.