

## Extraction and Precipitation of DNA

### Overview:

Purify DNA by extraction of proteins and precipitation of DNA

### Notes:

1. Perform under DNA sterile conditions

### Materials:

1. 3M NaOAc (on bench)
2. Phenol:CHCl<sub>3</sub>:isoamyl alcohol (4°C)
3. ETOH (-20°C)

### Procedures:

1. Extract with Phenol:CHCl<sub>3</sub>:isoamyl (RNA only in 4°C)
  - a. Equal volume
2. Precipitate with NaOAc
  - a. To DNA ADD
    - 3M Na Acetate                      0.1 V
    - 100% EtOH, ice cold                      3.0 V
      1. Mix by pipetting
      2. Incubate -80°C for minimum of 15 min.
      3. Pellet in microfuge 4°C, 5-15 min.
      4. Remove supernatant
      5. Wash pellet with 100 µl 70% EtOH ice cold
      6. Recentrifuge
      7. Remove supernatant
      8. Allow pellet to air dry, 15-20 min.
      9. Resuspend in 30 µl 1mM Tris, pH 8
      10. Read absorbance on spec