

## Yeast genomic DNA prep

AJ 21.05.19

Buffers:

### Yeast Lysis Buffer

10mM Tris pH 8.0	0.5ml 1M
100mM NaCl	1.25ml 4M
1mM EDTA	100 µl
2% Triton X-100	10ml 10%
1% SDS	5ml 10% SDS
H <sub>2</sub> O	To 50ml

### Phenol:Chloroform:isoamyl alcohol

1:1:1 mix of the above

### NaOAc pH 5.2

4.84g Acetic Acid  
29.92g NaAcetate  
100ml H<sub>2</sub>O

Procedure:

- 1) Grow 10mls of yeast overnight. Grow in the presence of 1x adenine. Sometimes better if grow to low OD (DNA prep shows less red colour)
- 2) Pellet cells in falcon tubes; resuspend in Lysis buffer; transfer to eppendorf; spin in microfuge (top speed)
- 3) Resuspend in 400 µl lysis buffer. Add 400 µl of Silica Beads (using a scoop made from an Eppendorf tube). Add 400 µl Phenol:Chloroform:Isoamylalcohol
- 4) Vortex for 5 mins in cold room
- 5) Spin at high speed and transfer supernatant to a new tube
- 6) Add 1 ml of cold 100% Ethanol. Pellet DNA. Wash pellet with 70% Ethanol. Speed vac to dryness.
- 7) Resuspend pellet in 90 µl TE. Add 10 µl RNase. Incubate 37°C 45 mins.
- 8) Add 10 µl 3M NaOAc pH 5.2 and 250 µl ice cold 100% EtOH. Pellet, wash with 70% EtOH, speed vac
- 9) Resuspend in 60 µl TE and boil for 5 minutes.