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CTAB Genomic Prep

(modified from the bacterial DNA prep in "Current Protocols in Molecular Biology")

The following protocol uses small volumes in microfuge tubes, but can be scaled up without any problems.

1. Spin down 1.5 ml cells
2. Resuspend in 560 μl TE and add 6 μl of 30 mg/ml lysozyme.
3. Add 30 μl 10% SDS and 3 μl 20 mg/ml Proteinase K. Mix and incubate 1 hour at 37 degrees celsius.
4. Add 100 μl 5M NaCl and mix thoroughly.
5. Add 80 μl CTAB/NaCl solution. Mix. Incubate 10 min at 65 degrees C.
6. Extract with 0.7 ml chloroform. Take aqueous phase and repeat steps 5 and 6.
7. Extract with 0.7 ml phenol:chloroform (1:1)
8. Precipitate with 420 μl isopropanol (0.6 volumes)
9. Wash with 75% ethanol.
10. Air dry and resuspend in 100 μl TE.

CTAB/NaCl solution (0.7M NaCl, 10% CTAB): Dissolve 4.1 g NaCl in 80 ml water. Slowly add 10 g CTAB. Stir with heat to dissolve. Bring volume to 100 ml.