

CTAB (Quick method for DNA extraction from plants)

Prepared by Ms Alex Aitken

1. Grind in a pestle and mortar a piece of leaf the size of your little finger nail + sand to a fine powder.
2. Add 0.5ml CTAB solution, 50ul Sarkosyl, 10ul Proteinase K. Vortex to mix.
3. Put in 60C hot block or waterbath for 10minutes.
4. Make a gel. Ready to run out extract.
5. Add 0.5ml SEVAC. Vortex. Centrifuge 3 minutes max speed.
6. Carefully take off top layer avoid sucking up white protein layer.
7. Repeat step 5&6.
8. Add 400ul Isopropanol. Mix by inverting, you may see DNA precipitate out.
9. Centrifuge 3 minutes max speed you should get a pellet.
10. Pour off as much liquid as possible without losing the pellet.
11. Add 0.5ml 70% ethanol mix by inverting.
12. Centrifuge 3 minutes max speed.
13. Pour off liquid and drain onto a tissue.
14. Put tube in hot block 60C for 5minutes to dry pellet.
15. Suspend pellet in 30ul of water, heat at 60C to speed things up. May need to flick tube to help dissolve pellet.
16. Use 1ul to measure in the nano-drop.
17. Load 10ul in a gel you could get anything from a high Mwt band of DNA + loads of RNA to a sheared smear.