Genomic DNA Extraction

Materials
DNA Extraction Buffer: 50 mM Tris-HCl, pH 8.0
20 mM EDTA

Methods
1. Powder 1 gr (100 mg) tissue in liquid nitrogen
2. Add 15 ml (1 ml) of the DNA Extraction Buffer and then
3. Add 0.5 ml (33.33 µl) 20% SDS
4. Incubate at 65 °C for 30 min (heat block) and vortex after
5. Add 4.5 ml (300 µl) 3M KOAc (or NaOAc) pH 5.2 (with AcA)
6. Incubate on ice for 30-60 min
7. Centrifuge at 10,000 rpm for 10 min
8. Filter supernatant (1 ml) through miracloth
9. Precipitate with 2 volumes EtOH or 1 volume isopropanol
10. Freeze for 10 min in -80 °C
11. Centrifuge at 10,000 rpm for 10 min
12. Wash the pellet with 70% EtOH (full speed for 5 min)
13. Resuspend in sterile H₂O (20 µl)
14. Store at -20 °C

** Careful not to have contamination from DNA from sample to sample.