- QIAshredder
- Collection tubes
- BufferAP1 (Lysis buffer)
- Buffer AP2 (Precipitation buffer)
- Buffer AP3 (Binding buffer)
- Buffer AW concentrate (Wash buffer)
- Buffer AE (Elution Buffer)
- RNase A
- Liquid nitrogen
- Mortar and pestle

Procedure

- Lysis of the plant cell
- Removal of cell debris and precipitates in a single step by a brief spin through QIA shredder, a unique filtration and homogenization unit.
- The cleared lysate is transferred to a new tube and binding buffer and ethanol are added to promote binding of DNA to the DNeasy membrane.
- The sample is then applied to a DNeasy spin-column and spun briefly in a centrifuge
- DNA binds to the membrane while contaminants such as proteins and polysaccharides are efficiently removed by two wash steps.
- Pure DNA is eluted in a small volume of low salt buffer or water

The detailed protocols of QIAGEN Anion-exchange chromatography and silica-gel membrane technology are available along with their respective kits.

AuPreP™ DNA easy Plant Mini Kit

AuPreP™ DNA easy Plant Mini Kit is specially designed for rapid isolation of genomic DNA (including virus, chloroplast or mitochondria) from a wide variety of plant and fungal species. The system provides shearing tubes for simple and fast homogenization as well as filtration of tissues. The simple spin-column method can isolate genomic DNA of predominantly 20-30 kb free of protein and salt contaminants without need of performing time-consuming phenol/chloroform extraction and ethanol precipitation.

Material

1. Freeze-drier
2. Bench top centrifuge
3. Liquid Nitrogen
4. 98-100% ethanol
5. TE (pH 9.0)
6. PX1 Buffer
7. PX2 Buffer
8. PX3 Buffer
9. WS Buffer
10. Rnase A
11. Plant Genomic DNA Mini Column
12. Collection Tube
13. Shearing Tube (For Mini column)