

Genomic DNA Prep Kit (Plant)
9K-006-0015 (400 preps) / 9K-006-0020 (3300 preps)
store at room temperature 20°C ~ 25°C



Protocol

Prepare Isopropanol and 80% Ethanol before using the Kit. Please follow instructions on the vial to prepare the provided RNase A solution (4mg/mL) and store at -20°C Prepare a bath at 65°C for incubation.

Sample collection & Handling

- Fresh or frozen tissue must be finely ground with a mortar and pestle in liquid nitrogen before DNA isolation.
- Work quickly and keep tissue cold to minimize DNAase activity.

Cell Lysis

1. Transfer the finely ground tissue (10~30mg) to a 1.5mL microcentrifuge tube.
2. Add 300µL of **Cell Lysis Solution** to the tissue.
3. Incubate at 65°C for 60 min. mix invert the tube every 5~10 min. during the incubation.

RNase Treatment

4. Add 1.5µL of **RNase A (4mg/mL)** to the cell lysate.
5. Mix the sample by inverting the tube 25 times and incubate at 37°C for 15~60 min.

Protein Precipitation

6. Cool the sample to room temperature and add 100µL of **Protein Precipitation Solution** to the cell lysate.
7. Mix the solution by vortex.
8. Centrifuge at 13,000-16,000xg for 3min. (The precipitant should form a tight, green pellet. If the pellet is not tight, repeat step 7, incubate on ice for 10 min. and then repeat Step 8.)

DNA Precipitation

9. Transfer supernatant to a clean 1.5mL microcentrifuge tube containing 300µL of **100% Isopropanol** (2-propanol).
10. Mix the sample thoroughly by gentle inversions.
11. Centrifuge at 13,000~16,000xg for 1min. (white DNA pellet will be formed).
12. Discard the supernatant and drain tube briefly on clean absorbent paper.
Add 300µL of **80% Ethanol** and invert tube several times to wash the DNA Pellet.
13. Centrifuge at 13,000~16,000xg for 1 min. Carefully discard the ethanol.
14. Air dry at room temperature for 10~15 min.

DNA Hydration

15. Add 50µL ~100µL of **DNA Hydration Solution** to the dried DNA pellet.
16. Hydrate the DNA by incubating sample at 65°C for 1 hour.
17. Store DNA at 4°C.(For long time storage, store at -20°C or -80°C).