Quick Start Guide

GenElute™ Plant Genomic DNA Kit

G2N10, G2N70, G2N350

Preparation Instructions

1. Dilute Wash Solution Concentrate with 9.5 mL (10 prep), 72 mL (70 prep), or 330 mL (350 prep) of 95-100% ethanol. After each use, tightly cap diluted wash solution to prevent ethanol evaporation.
2. Preheat heat block and Elution Solution to 65 °C.

Protocol

All spins at ≥ 12,000 x g.

Release DNA from Tissue

1. Grind plant tissue in liquid nitrogen.
2. Lyse up to 100 mg ground plant tissue with 350 µL Lysis Solution Part A + 50 µL Lysis Solution Part B. Vortex & invert to thoroughly mix. Incubate at 65°C for 10 min.
   Optional: Add 50 units of RNase A (not included) to the lysis mixture just prior to incubation at 65 °C.

Remove Debris

3. Add 130 µL Precipitation Solution. Invert to mix. Incubate on ice 5 min. Discard column. **DO NOT** discard filtrate containing gDNA.
4. Spin for 5 min to pellet debris.
5. Transfer supernatant to blue filtration column in collection tube. Spin 1 min.

Bind DNA to Column

6. Add 700 µL Binding Solution to filtrate. Mix thoroughly by inversion.
7. Transfer 700 µL of mixture to binding column. Spin 1 min. Discard flowthrough.
8. Repeat until all mixture is loaded onto the binding column. Transfer column to new collection tube.

Wash to Remove Contaminants

9. Add 500 µL diluted Wash Solution to column. Spin 1 min. Transfer column to new collection tube.
10. Add second 500 µL diluted Wash Solution to column. Spin 1 min.

Elute purified DNA

11. Transfer column to new collection tube.
12. Add 100 µL Elution Solution (pre-warmed to 65°C) to column. Spin 1 min. Repeat elution in the same or new tube if desired.

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