

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 $\geq 12,000 \times g$.

Release DNA from Tissue

1. Grind plant tissue in liquid nitrogen.
2. Lyse up to 100 mg ground plant tissue with 350 μ L Lysis Solution Part A + 50 μ L 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 μ L 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 μ L Binding Solution to filtrate. Mix thoroughly by inversion.
7. Transfer 700 μ L 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 μ L diluted Wash Solution to column. Spin 1 min. Transfer column to new collection tube.
10. Add second 500 μ L diluted Wash Solution to column. Spin 1 min.

Elute purified DNA

11. Transfer column to new collection tube.
12. Add 100 μ L 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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