Product Information:

Fast Plant Genomic DNA extraction Kit

Catalog: PGD-01
Sizes: 50 extractions
Storage: 2-8°C
Kit contains: Reagent-A (10ml); Reagent-B (250ul); Reagent-C (10ml); DNA precipitation solution (10ml), Spin column (50)
Description: This kit is designed for rapidly extracting the genomic DNA from the rigid cells/tissue samples (Plant, yeast, fungi and bacteria) offering a simple, fast, environmental-friendly protocol for gDNA extraction without using toxic organic solvents such as ß-mercaptoethanol, phenol or chloroform.

Procedure:

1. Transfer 20-50mg of plant leaves (cut ∽3mm slips of leaf) into a clean 1.5mL microcentrifuge tube containing 200ul reagent-A and 10ul reagent-B. Incubate at 60ºC for 10 minutes.

   (Optional) Using a clean plastic pestle to homogenize the tissues for 10-20 strokes may obtain higher yield of genomic DNA.
2. Place the tube in a PCR machine (or water bath or block) and incubate at 95ºC for 8 minutes.
3. Centrifuge at 12,000 xg for 5 minutes at 4ºC and transfer the supernatant into a clean 1.5mL tube.
4. Add 200ul reagent-C into the supernatant and mix by pipette up and down several times.
5. Centrifuge at 12,000 xg for 5 minutes at 4ºC and transfer the supernatant into a clean 1.5mL tube.
6. Pipette 2-5ul lysates into a 25ul PCR mastermix and run PCR/Real-Time PCR at thermal cyclers.

Procedure: (optional) for concentrating genomic DNA

- Place a column into a 1.5 ml collection tube. Add 200ul DNA precipitation solution (Cat. #: PS-01D) into the supernatant from step5. Mix well by votexing and transfer all solution into the column.
- Immediately centrifuge at 12,000 xg for 8 minutes at 4ºC. Discard the supernatant.
- Simply rinse pellet with 80% ethanol for 3 times (don't resuspend the DNA pellets). Spin down pellets at 12,000 xg for 8 minutes at 4ºC if the DNA pellets are resuspended.
- Air-dry pellet for 5-10 minutes and dissolve DNA in 50ul TE buffer or distilled water.
- Centrifuge at 12,000 xg for 3 minutes at 4ºC prior to measure the DNA concentration with 260/280nm. Store DNA at -20ºC.
- Pipette 1-2ul of DNA into a 25ul PCR master mixture and run PCR/Real-Time PCR at thermal cyclers.

Precautions and Disclaimer:
This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

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