PRODUCT INFORMATION

Rapid Plant DNA Genomic Isolation Kit

Product information for PT71816/PT71817:

Kit Components

Components	PT71816, 100 Preps	PT71817, 250 Preps
Buffer PCL	50 ml	125 ml
Buffer PP	24 ml	60 ml
TE Buffer	20 ml	50 ml
Protocol	1	1

Storage and Stability

Transportation at ambient temperature, Store at 4°C, Valid for 2 year.

Introduction

The kit is designed for rapid small-scale extraction of high quality genomic DNA from a variety of fresh or dry plant tissues. Purified DNA can be used for many downstream applications such as PCR, restriction digestion, hybridization and other applications.

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Features:

- ü Rapid & simple
- ü High quality of DNA. OD_{260}/OD_{280} of purified DNA is generally 1.8~1.9
- ü No toxic substance. The kit does not contain toxic reagents
- ü Easy to scale up

Procedures

1. Pre-warm 1 ml of Buffer PCL at 65°C.

Note: Buffer PCL may form precipitates during long-term storage. Warm the bottle at 65°C and then transfer 1 ml aliquot.

2. Grind 100 mg fresh plant tissue (or 20 mg dry plant tissue) to fine powder in liquid nitrogen. Transfer the powder into a 1.5 ml tube, add 400µl Buffer PCL, and incubate at 65°C for 10-20 min.

Note: To obtain RNA-free DNA, add 20µl RNase A solution (20 mg/ml. Not supplied in the kit) to the tube. Mix thoroughly and incubate at room temperature for 5 minutes before step 3.

3. Add 200µl Buffer PP, mix by inverting. Incubate at -20°C for 5 minutes.

4. Centrifuge at 12,000 x *g* for 5 minutes at room temperature. Transfer the supernatant into a new 1.5 ml tube.

5. (Optional) Add 0.2 ml of chloroform to the supernatant, mix well by inverting 10 times. Centrifuge at 12,000 x *g* for 2 minutes. Carefully transfer the supernatant to a clean 1.5 ml tube.

6. Add equal volume of isopropanol (approx 0.3-0.5 ml) to the solution, mix well by inverting 5 times. Incubate at room temperature for 2~5 minutes. Centrifuge at 12,000 x *g* for 5 minutes, discard the supernatant carefully.

7. Add 1 ml of pre-cooled 75% ethanol to the tube, mix well by inverting 10 times. Centrifuge at 12,000 x *g* for 1 minute, discard the supernatant.

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8. Repeat the Step 7 once.

9. Air-dry the pellet at room temperature with the lid open for 2~5 minutes.

10. Add 50~200 µl of TE buffer to dissolve DNA pellet. Keep at 4°C for a couple hours until DNA pellet is completely dissolved. Purified DNA is ready for use. For long term storage keeps at -20°C.

Note: pre-warm TE Buffer to 65°C may increase efficiency of elution.

PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY!
NOT INTENDED FOR HUMAN OR ANIMAL USE!

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