microzone

DNAMITE®Plant Kit#2

100 Preparations

Protocol

Arabidopsis:

Place 1 or 2 inflorescences and/or a few leaves into a 1.5 ml microcentrifuge tube

Any other plant:

Place 1 to 2 cm^2 of leaf material into a 1.5 ml microcentrifuge tube

DNA Extraction

- Add 1 ml of Solution LA* and grind the leaves with a pestle**. Vortex the sample briefly
- Add 10 µl of RNase A solution***
- Incubate at room temperature for 10 mins
- Add 100 µl of Solution PA. Vortex the sample briefly
- Spin at 10,000 rpm for 5 minutes in a microfuge
- Transfer 500 µl of the supernatant into a new tube containing 500 µl of Solution CA, being careful to avoid transferring any debris. Vortex the sample briefly
- Leave on the bench for 5 minutes
- Spin in a microfuge at 13,000 rpm for 7 minutes to pellet the DNA
- Remove the supernatant with a 1 ml pipette
- Re-spin the tube briefly and remove the dregs
- Add 30 µl of 10/1 TE or Molecular Grade Water

  NB: The pellet may not be visible.

- Leave for 30 minutes (or overnight) to allow the DNA to rehydrate

2 to 3 µl of a 1/10 dilution DNA prep is recommended in a 25 µl PCR of Arabidopsis
For other plants dilute 1/20 and use 2 to 3 µl in a 25 µl PCR (guide only)

TIPS:

* If solution LA shows a white precipitate, place bottle in warm water bath or microwave briefly until solution becomes clear

** To avoid spillage when grinding with fleshier plant material, it may be necessary to reduce the volume of Solution LA to 800 µl or 900 µl and consequently, the volume of Solution PA to 80 µl or 90 µl respectively. Please contact Microzone for answers to any questions

***Solution LA and RNase A can be pooled and added together. Refreeze remainder of RNase A after use

Related Products

MegaMixes = Clear or blue PCR mixes for instant and accurate PCRs
TE = Molecular Grade 10 mM Tris pH 7.5 & 1 mM EDTA pH 8.0
Just Water = Molecular grade water in handy sizes

Supplied as 6 bottles (2 x 50 ml LA, 2 x 5 ml PA & 2 x 25 ml CA) and 2 x 0.5 ml tubes of RNase A
Store at room temperature & at -20°C **For Research Only**

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