

DNAMITE® Plant Kit

DNAMITE® Plant Kit is a DNA extraction kit created by Microzone that's perfect for extracting large amounts of high purity DNA and works exceptionally with Arabidopsis. Kits easily extract DNA from all plant samples including leaves, petals, seeds, stems and tubers. **DNAMITE®** is far quicker than spin-column methods and uses fewer steps. It doesn't use ethanol, phenol, chloroform or isopropanol, so it's safer for you and for the environment.

The popular **DNAMITE® Plant Kit** is favoured for its ease of application and simple to follow protocol which allows you to focus on the results of your research, letting our kit do the work.

If you'd like to speak with us in more detail about this or our comprehensive range of DNA extraction kits give us a call on 01384 444585 or visit www.clentlifescience.co.uk where you can also purchase a plant kit suitable for 100 tests for just £92.00.

Clent Life Science is the sole distributor of the entire range of trusted Microzone products as well as our own product line which has been carefully chosen and developed to assist the modern molecular biologist in achieving consistent, reliable results and a happy lab.



Straightforward, Easy to Follow 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 cm² 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 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.

Additional Information

- Supplied as 6 bottles (2 x 50 ml LA, 2 x 5 ml PA & 2 x 25 ml CA)
- Store at room temperature & at +4°C

Related Products available to purchase online

- **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



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