Plant DNA extraction

The **Invisorb® Spin Plant Mini Kit** is an effective solution for isolation of high-quality total cellular DNA from a wide variety of plant species and tissue types. The optimized procedure uses a pre-filtration spin column, a unique filtration and homogenization column that efficiently removes cell debris and improves sample handling following lysis. The purified DNA is ready to use for subsequent downstream applications (e.g. PCR, real-time PCR, RAPD-, RFLP-, AFLP-analysis etc.).

Product characteristics

- <u>Starting material</u>: up to 100 mg fresh plant material; up to 60 mg dried material; material with extremely high water content, e.g. algae: up to 300 mg
- Average yield: 5 35 μg DNA
- Preparation time: approx. 60 min

Benefits

- More intact DNA: no DNA degradation by using a gentle, low-salt (non-chaotropic) buffer system
- High yields and purity: up to 35 μg DNA, free of polysaccharides and other secondary metabolites
- For various plant materials: leaves, roots, fruits, flowers, wood, oily seeds

Workflow



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Ordering information

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER	
Invisorb® Spin Plant Mini Kit	50 purifications 250 purifications	1037100200 1037100300	



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APPLICATION EXAMPLE

Amplified Fragment Length Polymorphism (AFLP) analysis of Chlorella vulgaris



DNA was isolated from different strains of Chlorella vulgaris using the Invisorb® Spin Plant Mini Kit. Isolated DNA (100 ng) was digested with Eco R1 and Msel followed by selective amplification with EcoRI-C/Msel-C primers. The AFLP-analysis was carried out on ABI PRISM 3100 Genetic Analyzer.

Data kindly provided from Mrs. J. Müller, Albrecht-von-Haller-Institute for Plant Science, University of Göttingen.

Selected references

Several origins of floral oil in the Angelonieae, a southern hemisphere disjunct clade of Plantaginaceae. Martins AC, Scherz MD, Renner SS; Am J Bot. 2014 Dec;101(12):2113-20

A new species of Alwisia (Myxomycetes) from New South Wales and Tasmania. Leontyev DV, Stephenson SL, Schnittler M; Mycologia. 2014 Nov;106(6):1212-9

The H+-ATPase HA1 of Medicago truncatula Is Essential for Phosphate Transport and Plant Growth during Arbuscular Mycorrhizal Symbiosis.

Krajinski F, Courty PE, Sieh D, Franken P, Zhang H, Bucher M, Gerlach N, Kryvoruchko I, Zoeller D, Udvardi M, Hause B; Plant Cell. 2014 Apr 29;26(4):1808-1817

Related products

PRODUCT	PACKAGE SIZE	CATALOGUE NUMBER
Invisorb® DNA Plant HTS 96 Kit/ C	4 x 96 purifications 24 x 96 purifications	7037300300 7037300400
InviMag® Plant DNA Mini Kit/ KFmL	75 purifications 300 purifications	2437110200 2437110400
InviMag® Plant DNA Mini Kit/ KF96	1 x 96 purifications 5 x 96 purifications	7437300100 7437300200



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