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

- **Starting material:** 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

### Ordering information

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>PACKAGE SIZE</th>
<th>CATALOGUE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invisorb® Spin Plant Mini Kit</td>
<td>50 purifications</td>
<td>1037100200</td>
</tr>
<tr>
<td></td>
<td>250 purifications</td>
<td>1037100300</td>
</tr>
</tbody>
</table>

### Workflow

1. **Lysis**
2. **Pre-filtration**
3. **Binding of DNA**
4. **Elution**
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.

Related products

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