

PurePrep Leaf

DNA extraction from leaf

The PurePrep Leaf kit allows fast and cost-effective extraction of DNA from plant samples. The kit is optimized to extract DNA from plant samples with the highest purity and works well with plant leaf samples rich in secondary metabolites. The CTAB-based extraction chemistry is validated for many different plant species and can be customized to meet any specific requirements of yields, purity, working volumes. The kit can be used on any DNA extraction robot.

General Features

- Short protocols, complete processing at room temperature possible (after sample lysis)
- High yield and purity
- Suitable for many genomic applications such as SNP genotyping, DNA sequencing, etc.
- Preparation time for 96 samples: 25 min after lysis

Quality

- Validated for many plant species, e.g. sugar, beet, wheat, maize, sunflower, tomato, pepper, cucumber, rose, etc.
- Compatible with samples rich in secondary metabolites
- High reproducibility
- Good DNA integrity
- Efficient removal of PCR inhibitors

Flexibility

- For seed samples, Lysis Buffer PL can be exchanged with Lysis Buffer VG, offering a flexible solution for both sample types in a single extraction run
- Suitable for small, medium and high-throughput automation
- Scalable for different sample volumes
- Shortened protocols for less demanding applications
- Small elution volumes
- Aqueous quick-wash or air-dry to remove ethanol

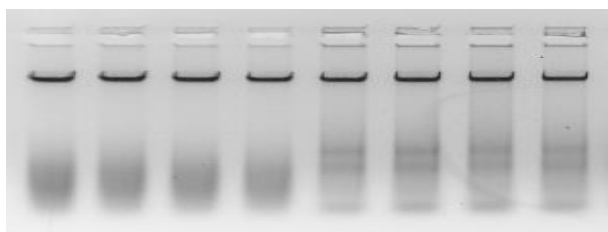
Easy to Automate

- Minimal accessory requirements
- Compatible with most liquid handling robots, including system from Hamilton, Beckman, Tecan, etc.
- Various magnetic separators available
- Validated kits and protocols for oKtopure™ and DNA Cruiser available

Table 1. Purity ratios obtained from different leaves

Plant species	260/280	260/230
Maize (Z. mays)	1.91	2.21
Sunflower (Helianthus annuus)	1.60	1.36
Pepper (Capsicum annum)	1.87	0.75
Cucumber (Cucumis Sativus)	1.51	1.16
Strawberry (Fragaria)	1.81	1.79

Figure 1. 1% Agarose gel showing high molecular weight DNA extracted from sunflower (left) and strawberry leaves (right)



About us

MolGen is a young, dynamic and fast-growing company, active in the field of molecular biology and specialized in the technology to purify DNA / RNA from various materials. In addition, MolGen sells innovative and total solutions and MolGen continuously develops new products and services to meet the ever-changing demand of the market. At the moment MolGen is very active in the field of extraction chemistry and equipment to scale up the SARS-CoV-2 test capacity. MolGen has its headquarters in the Netherlands.