

PurePrep Seed

DNA extraction from Seeds

PurePrep Seed extraction kits allow fast and cost-effective extraction of DNA from plant samples. The kit is optimized to extract DNA with the highest purity and works well with plant samples rich in fats and oils, especially seeds. The kit is also optimized for research on the hypocotyl or more general plant samples. The extraction chemistry is validated on many different plant species and can be customized to meet your specific requirements of yield, purity, working volume, etc. The kit can be used on virtually 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, NGS, etc.
- Optimized lysis buffers for seeds and leaves available
- Suitable to perform QC on seeds

Quality

- Validated for many plant species, e.g. wheat, sunflower, tomato, pepper, cucumber, lettuce, etc.
- Compatible with oil seed crops
- High reproducibility
- Good DNA integrity
- Efficient removal of PCR inhibitors

Flexibility

- The kit is customizable, various lysis buffers are available to optimize the kit for different sample types
- 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

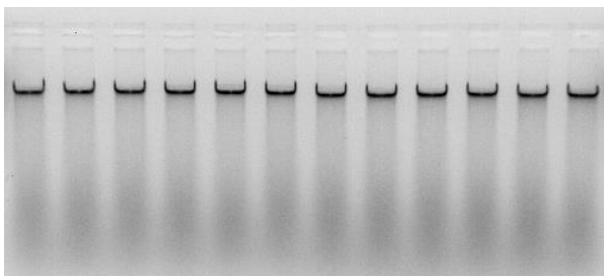
Easy to Automate

- Minimal accessory requirements
- PurePrep protocols available on request
- Consumables for PurePrep 96 available
- 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 seeds

Plant species	260/280	260/230
Wheat (Triticum L.)	1,87	2,20
Sunflower (Helianthus annuus)	1,72	1,47
Pepper (Capsicum annum)	1,74	1,72
Cucumber (Cucumis Sativus)	1,80	1,49
Tomato (Solanum lycopersicum)	1,47	1,22
Lettuce (Lactuca sativa)	1,74	1,71

Figure 1. 1% Agarose gel showing high molecular weight DNA extracted from 12 wheat seeds



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.