magtivio

MagSi-DNA Vegetal III

Fast and Cost-effective Extraction of Genomic DNA from Plants Leaves

DNA Extraction from plant leaves

The **MagSi-DNA Vegetal III** 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 plants 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

Easy to Automate

- Minimal accessory requirements
- KingFisher™ / MagMAX™ / BioSprint instrument protocols available on request
- Consumables for KingFisher™ Flex / 96 MagMAX™ Express-96 / BioSprint 96 available
- Compatible with most liquid handling robots (e.g. Hamilton®, TECAN®, Biomek®)
- Various magnetic separators available

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 quickwash or air-dry to remove ethanol

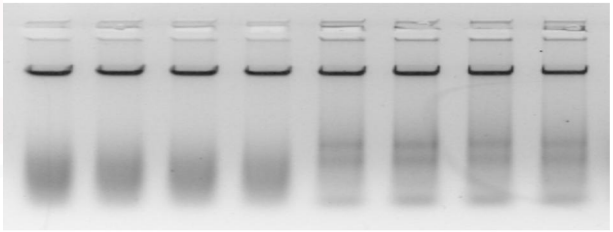

Figure 1. *1% Agarose gel showing high molecular weight DNA extracted from sunflower (left) and strawberry leaves (right)*

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 annuum)*	1,87	0,75
Cucumber *(Cucumis Sativus)*	1,51	1,16
Strawberry *(Fragaria)*	1,81	1,79

Ordering Information

Art. No.	Product	Volume
MDKT00190096	MagSi-DNA Vegetal III (96 preps)	96 preps
MDKT00190960	MagSi-DNA Vegetal III (10 x 96 preps)	10 x 96 preps

For bulk quantities of the kit contact magtivio

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