magtivio

# MagSi-DNA Plant CLS SC

# Small-Scale Extraction of Genomic DNA from Plant Cotyl, Leaf and Seed

The MagSi-DNA Plant CLS SC kit is engineered as Small-Scale (SC), a new formulation designed to facilitate downscaled low-volume extraction protocols, where minimising cost and volume is critical. Low-volume extraction protocols enable fast, cost-effective, and automation-friendly DNA extraction from any plant tissue type. “CLS” refers to Cotyl, Leaf, and Seed, the most commonly used sample types in plant breeding.

## Features

- *Specifically designed for downscaled workflows*
- *Dual-buffer lysis system supporting cotyledon, leaf and seed.*
- *12 to 25-minute processing time for 96 samples after lysis (Optimized protocols with different run times available upon request)*
- *Streamlined and robust protocol, optimising yields and purity fitting low-volume protocols*
- *Compatible with downstream applications including SNP genotyping and PCR assays.*
- *This kit uses a standardised, low-volume protocol that minimises reagent use across all steps.*
- *Ready-to-use kit*
- *Fast and convenient protocols, easy adaptable to high-throughput automation*
- *Validated internally across >20 different crops: Barley, Tomato, Cucumber, Lettuce and more*

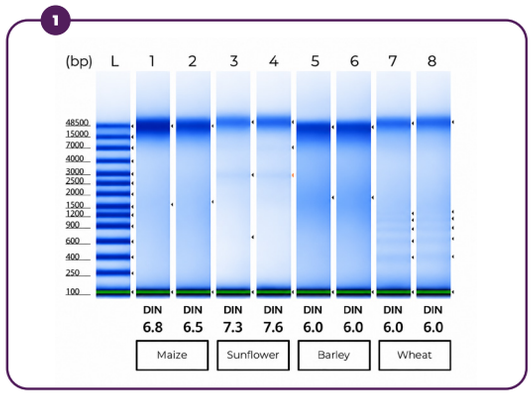
## Small Scale, Big Impact

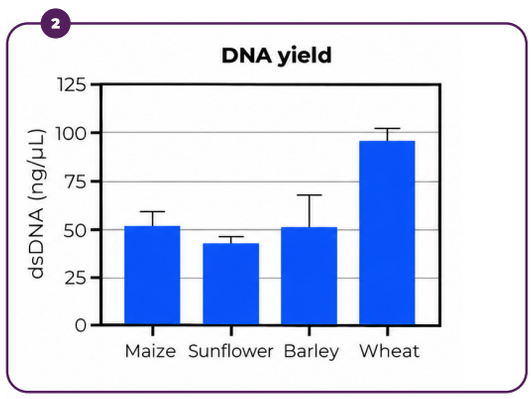
When basic protocols are downscaled, it creates a ripple effect across surrounding processes. By downscaling volumes without loss of performance, the SC workflow reduces reagent use, lowers plastic waste, and increases throughput.

For certain plant species, pre-treatment may need adjustment for low-volume processing, such as reducing sample input or increasing lysis buffer volume to maximise extraction efficiency

## Liquid Handling

The MagSi-DNA Plant CLS SC can be used on open liquid handling platforms (e.g. Hamilton®, Tecan® and ©Beckman Coulter) and on Magnetic Particle Processing devices (such as KingFisher™ & Autopure™-96)



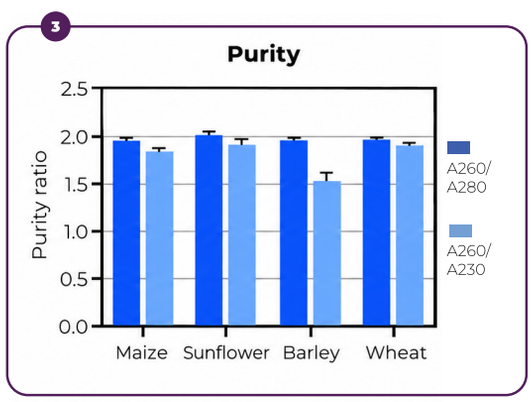




***Figure 1.*** Integrity of purified DNA from different plant seeds analysed using automated electrophoresis by Agilent TapeStation 4150.

***Figure 2.*** DNA concentrations (Qubit) obtained from different plant seeds after manual extraction using this kit with lysis buffer PL, eluted in 40 µL elution buffer (n=4). If higher yields are desired, 10 µL Proteinase K per mL lysis buffer can be added during lysis.

***Figure 3.*** Purity ratios (NanoDrop) obtained from different plant seeds after manual extraction using this kit (n=4).

**Order via order@magtivio.com or visit our site for more.**

| Art. No. | Description | Amount |
|---|---|---|
| MDKT00320096 | MagSi-DNA Plant CLS SC | 96 preps |
| MDKT0032005K | MagSi-DNA Plant CLS SC | 5K preps |
| Ask for our customized, bulk options and accessory products (e.g. Proteinase K & RNase A) | | |


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