

Axygen® AxyPrep™ MAG Plant Genomic DNA Extraction Kit

High-quality Plant Genomic DNA

AXYGEN

A Corning Brand

Extracting high-quality genomic DNA (gDNA) from plants has become vital, especially with the widespread use of genetically modified organisms in breeding crops.

Traditional methods for plant extractions require the use of organic solvents but also phenolic compounds, which lead to contamination and may result in low-quality gDNA. Low-quality gDNA affects the outcome of downstream applications and may contribute significantly to their failure, resulting in the loss of valuable processing time and effort.

The AxyPrep MAG Plant gDNA Extraction Kit is a magnetic beads-based purification system that allows rapid and reliable isolation of high-quality gDNA from a wide variety of plant samples. Up to 96 samples (50 mg fresh tissue per sample or 15 mg of dried tissue per sample) can be processed in less than one hour. The AxyPrep MAG Plant gDNA Extraction Kit efficiently eliminates polysaccharides, phenolic compounds and enzyme inhibitors with no organic extractions. This kit is adaptable for use on major liquid handling workstations for high throughput processing.

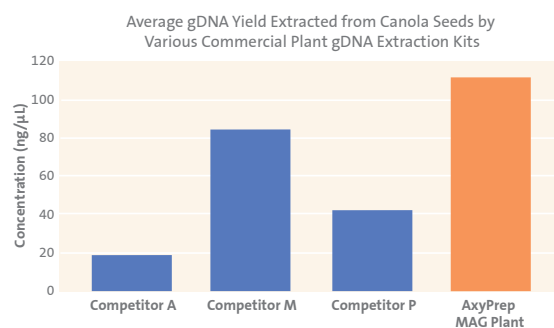
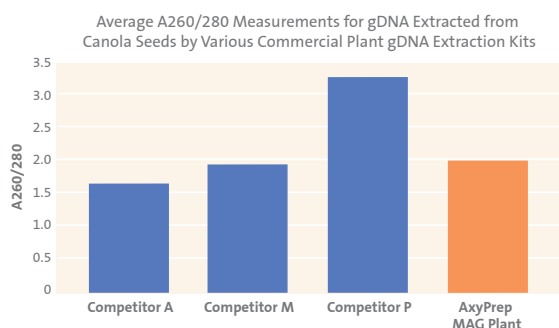
Downstream Applications Compatibility

- ▶ PCR
- ▶ Sanger and Next Generation sequencing
- ▶ Fragment Analysis
- ▶ Genotyping and SNP detection
- ▶ Restriction Enzyme clean-up

Product Features

- ▶ Simplified extraction process
- ▶ Non-alcohol-based purification
- ▶ Compatible with genomics downstream applications
- ▶ High-quality, high-yield DNA
- ▶ Manual and automation friendly



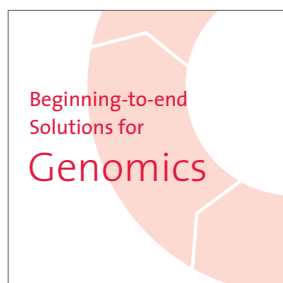


Comparison of DNA extracted using Axygen® AxyPrep™ MAG Plant gDNA Kit versus Company P's equivalent kit. Using liquid N₂, canola seeds were ground to fine powder. Twenty milligrams were weighed into a 1.5 mL tube for extraction. Quality was measured with A260/280 (left). Yields was measured with Picogreen (right).

Ordering Information

Cat. No.	Description	Kit Size/Prep
MAG-PLANT-GDNA-10	AxyPrep MAG Plant gDNA Extraction Kit, 10 mL	10
MAG-PLANT-GDNA-S	AxyPrep MAG Plant gDNA Extraction Kit, Small	96
MAG-PLANT-GDNA-M	AxyPrep MAG Plant gDNA Extraction Kit, Medium	384

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A combination of global manufacturing expertise, extensive use of in-house automation, an unsurpassed commitment to product innovation and a thorough understanding of your processes enables Corning to offer a beginning-to-end portfolio of high-quality, reliable consumables and reagents for genomics applications.

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