

MagCore® Nucleic Acid Extraction Kits



For extraction of plant DNA from plant tissues

MagCore® Genomic DNA Plant Kit is designed to extract DNA from plant tissues and cells using MagCore® automated extraction systems. The provided Filter Column Set can filtrate hard tissue samples to prevent tissue residues from clogging the pipette syringe. The kit contains all required reagents and labware for automated extraction using magnetic-particle technology. Reagents are supplied and pre-filled in cartridges, which can be easily loaded into the MagCore® instrument.

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MagCore® Genomic DNA Plant Kit



Features

1. Lysis buffer can degrade large amounts of polysaccharides present on plant cell walls
2. Cartridges are pre-filled and sealed to prevent contamination.
3. No phenol or chloroform extraction and alcohol precipitation.
4. Efficient removal of contaminants and inhibitors.

Applications

The MagCore® Genomic DNA Plant Kit enables DNA purification from various samples types, including:

1. Plant cells
2. Plant tissues

High quality DNA available for downstream applications, including:

1. PCR and real-time PCR
2. Next Generation Sequencing (NGS)



Performance

Yields of nucleic acid purified from various sources by MagCore® Genomic DNA Plant Kit

Sample ID	Position	Yield (ng/µl)
<i>Citrus nobilis</i> Lour.	Leaf	36.5
<i>Carica papaya</i>	Leaf	49.2
<i>Lycopersicon esculentum</i>	Leaf	71.9
<i>Citrullus lanatus</i>	Leaf	23.4
<i>Anisogonium esculentum</i>	Leaf	240.3
<i>Trachycarpus fortunei</i>	Leaf	154.7
<i>Mentha piperita</i>	Leaf	54.6
<i>Anthoceros punctatus</i>	Leaf	38.9
<i>Calix babylonica</i>	Leaf	80.7
<i>Prnus campanulata</i>	Leaf	35.7
<i>Lxeris chinensis</i>	Leaf	161.4
<i>Capsicum annum</i>	Leaf	13.9
<i>Vigna radiata</i>	Seed	7.0
<i>Medicago sativa</i>	Leaf	21.0
<i>Vigna angularis</i>	Seed	5.8
<i>Agaricus bisporus</i>	Whole	14.3

MagCore® Automated Nucleic Acid Kits Specification

Cartridge Code	MagCore® Super/HF16 Plus/Plus II				MagCore® HF16/Compact/HF48			
	Cat.No.	Cat.No.	Cat.No.	Running Time	Cat.No.	Cat.No.	Cat.No.	Running Time
	36 preps	72 preps	96 preps		36 preps	72 preps	96 preps	

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MagCore® Genomic DNA Plant Kit

For 50-100 mg fresh tissues or 5-20mg dried plant tissues

Contents: Pre-Filled Cartridges, RNase A, GP1 Buffer, GP2 Buffer, Filter Column Sets, Disposable Tip & Holder Sets, Sample Tubes, Elution Tubes

Shelf life: 18 months

MGP-01	MGP-02	Time: 33 min (sample volume: 400 µl) *optical detection is not provided	MGP-01	MGP-02	33min (sample volume: 400 µl) (Applicable models: HF16, Compact)
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Enzyme Selection Guide

Product	Contents	Cat.No.
Proteinase K Set	11 mg Proteinase K, 1.25 ml PK Storage Buffer	PK011
RNase A	50 µl RNase A (50mg/ml)	RN050
	130 µl RNase A (50mg/ml)	RN130



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