

MagCore® Nucleic Acid Extraction Kits



MagCore® Automated Nucleic Acid Kits Selection Guide



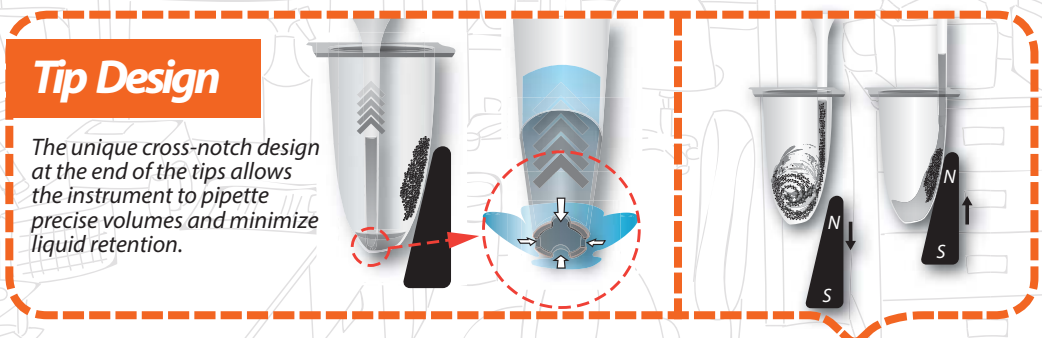
	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Whole Blood	Buffy Coat	Plasma/Serum	Cell-free body fluids	Urine	Free circulating DNA	Cultured Cells	Animal Tissue	Plant Tissue	Bacterial/Sputum	Swab	FFPE	Stool	Forensic Specimens
Genomic DNA	101 MagCore® Genomic DNA Whole Blood Kit (Speedy installation)	MGB400-01 MGB400-01SP		MGB400-02 MGB400-02SP	■	■												
	102 MagCore® Genomic DNA Whole Blood Kit		MGB400-03 MGB400-03SP		MGB400-04 MGB400-04SP	■	■											
	104 MagCore® Genomic DNA Large Volume Whole Blood Kit (1.2 ml)				MGB1200 MGB1200SP	■												
	105 MagCore® Plasma DNA Extraction Kit (1.2 ml)				MPD1200 MPD1200SP		■	■		■								
	115 MagCore® Plasma DNA Extraction Kit (4 ml)				Coming Soon		■	■		■								
	106 MagCore® Genomic DNA Whole Blood Kit (For Genotyping)		MGB400-07 MGB400-07SP		MGB400-08 MGB400-08SP	■												
	110 MagCore® Cultured Cells DNA Kit		MCC-01 MCC-01SP		MCC-02 MCC-02SP						■							
	301 MagCore® Genomic DNA Plant Kit		MGP-01 MGP-01SP		MGP-02 MGP-02SP								■					
	401 MagCore® Genomic DNA Tissue Kit		MGT-01 MGT-01SP		MGT-02 MGT-02SP							■			■	■	■	■
	405 MagCore® Genomic DNA FFPE One-Step Kit		MGF-01 MGF-01SP	MGF-03 MGF-03SP												■		
	406 MagCore® Forensic DNA Direct Kit			MFC-03SP												■		■
	502 MagCore® Genomic DNA Bacterial Kit		MBB-01 MBB-01SP		MBB-02 MBB-02SP										■			
Viral Nucleic Acids	201 MagCore® Viral Nucleic Acid Extraction Kit	MVN400-01 MVN400-01SP		MVN400-02 MVN400-02SP			■	■	■									
	202 MagCore® Viral Nucleic Acid Extraction Kit (Low PCR Inhibition)		MVN400-03 MVN400-03SP		MVN400-04 MVN400-04SP		■	■	■									
	210 MagCore® Viral Nucleic Acid Large Volume Extraction Kit (2.4 ml)				MVN2400		■	■	■									
	211 MagCore® Viral Nucleic Acid Large Volume Extraction Kit (1.2 ml)				MVN1200 MVN1200SP		■	■	■									
Total RNA	601 MagCore® Total RNA Whole Blood Kit		MRN-01 MRN-01SP		MRN-02 MRN-02SP	■												
	610 MagCore® Total RNA Cultured Cells Kit		MRC-01 MRC-01SP		MRC-02 MRC-02SP						■							
	631 MagCore® triXact RNA Kit	MRX-01 MRX-01SP		MRX-03 MRX-03SP		■					■	■						

MagCore® Cartridge Design and Extraction Principle



MagCore® cartridges include all reagents needed for purifications, no additional handling is necessary. We minimize any possible contamination and spillage with an automated piercing step for our pre-sealed cartridges. RBC patented Heating Well and Separation Well in the cartridge provide a strong circular force to ensure efficient binding and washing during the extraction procedure.

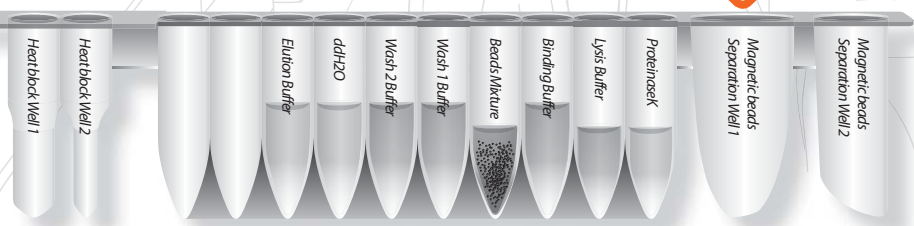
MagCore® Nucleic Acid Extraction Kits contain all reagents and consumables needed for 36, 72 or 96 nucleic acid isolation reactions. The consumables consist of reagent cartridges, individually packaged tip sets, sample tubes and elution tubes.



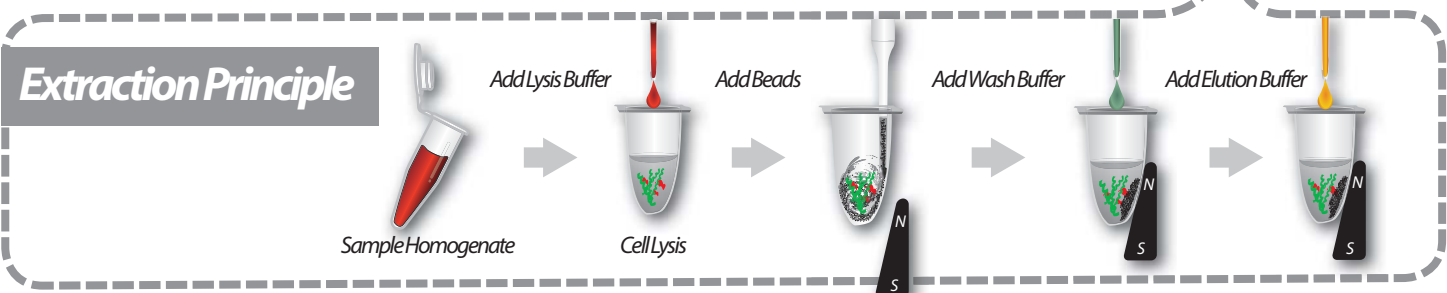
Tip Design

The unique cross-notch design at the end of the tips allows the instrument to pipette precise volumes and minimize liquid retention.

RBC Cartridge



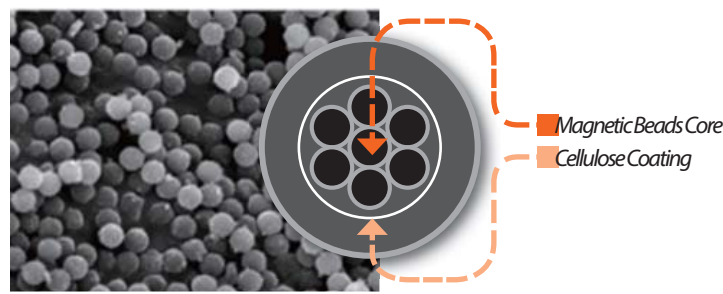
Each cartridge has 14 positions available with 10 sealed wells and 2 heating chambers.



Extraction Principle

MagCore® Worldwide Patented Magnetic Beads

Our design: multiple core inside, cellulose coating.



Particlerange	~20µm (in water)
VSM	~40emu/g
Cellulose%	~50%
Core size	~150nm
Core VSM	~80emu/g
Core material	Fe ₃ O ₄
Bead Binding capacity	1 mg beads bind ~300µg <i>Calthymus</i> DNA ~350µg human placenta DNA



FDA (10055336) registered and CE-IVD certified (Instruments & Reagents)
Manufactured in accordance with quality system requirements that comply with ISO 13485 standards and QSR



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.

301

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
301	36 preps	72 preps	96 preps		36 preps	72 preps	96 preps	
	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-01SP	MGP-02SP	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)	

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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