

MagCore® Nucleic Acid Extraction Kits



MagCore® Automated Nucleic Acid Kits Selection Guide



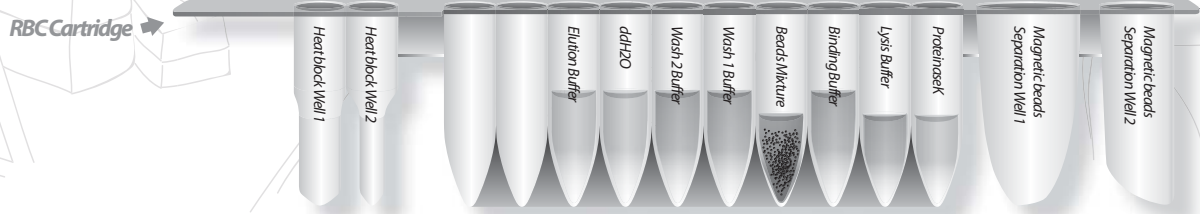
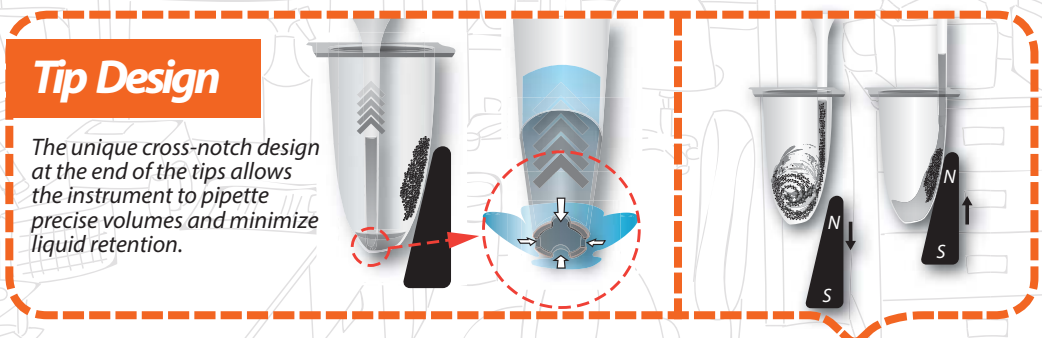
	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Whole Blood	Buffy Coat	Plasma/Serum	Cell-free body fluids	Urine	Free circulating DNA	Cultured Cells	Animal Tissue	Plant Tissue	Bacterial/Sputum	Swab	FFPE	Stool	Forensic Specimens
Genomic DNA	101 MagCore® Genomic DNA Whole Blood Kit (Speedy installation)	MGB400-01 MGB400-01SP		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

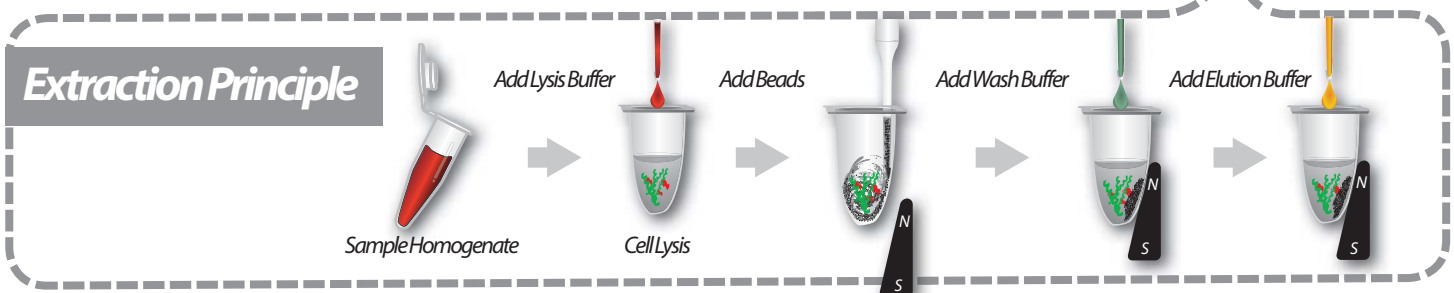


MagCore® cartridges include all reagents needed for purifications, no additional handling is necessary. We minimize any possible contamination and spillage with an automated piercing step for our pre-sealed cartridges. RBC patented Heating Well and Separation Well in the cartridge provide a strong circular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

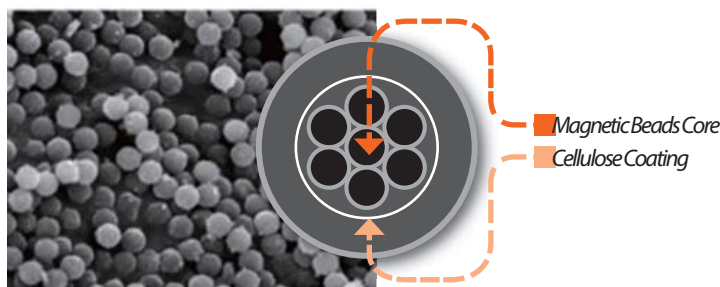


Each cartridge has 14 positions available with 10 sealed wells and 2 heating chambers.



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



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MagCore® Nucleic Acid Extraction Kits



For extraction of genomic DNA from bacteria

MagCore® Genomic DNA Bacterial Kit is designed to extract genomic DNA from Gram positive and Gram negative bacteria. 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 Bacterial kit



Features

1. High performance of purified DNA in downstream applications such as qPCR.
2. Cartridges are pre-filled and sealed to prevent contamination.
3. No phenol or chloroform involved.

Applications

MagCore® Genomic DNA Bacterial Kit is designed for automated DNA extraction from various sample types, including:

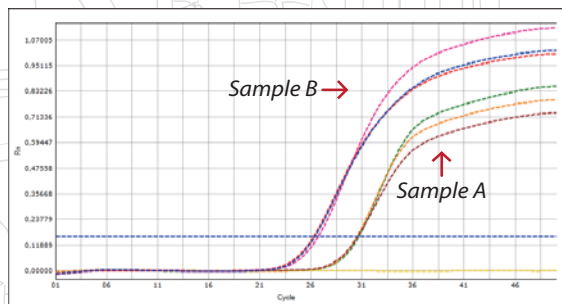
1. Cell cultures in suspension (up to 2×10^8 cells)
2. Biological fluids
3. Cell cultures on plate
4. Gram-positive and Gram-negative bacteria



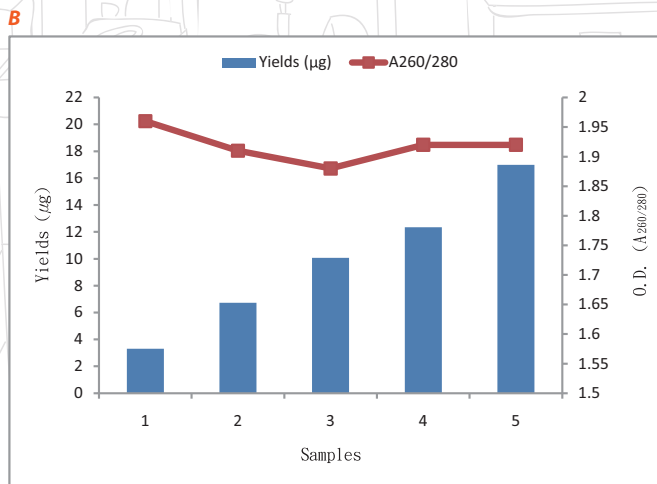
Performance

High performance of purified bacterial DNA in real-time PCR

Well	Type	Target	Ct	Interpretation	Label
D2	Unknown	<i>H. pylori</i>	30.70	Positive	Sample A
D3	Unknown	<i>H. pylori</i>	30.52	Positive	Sample A
D4	Unknown	<i>H. pylori</i>	No Ct	Negative	Negative Ctrl
D5	Unknown	<i>H. pylori</i>	30.59	Positive	Sample A
E2	Unknown	<i>H. pylori</i>	26.73	Positive	Sample B
E3	Unknown	<i>H. pylori</i>	26.28	Positive	Sample B
E4	Unknown	<i>H. pylori</i>	26.40	Positive	Sample B



Consistent Yield, Purity, and Reproducibility in MagCore® Bacteria Genomic DNA Extraction



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 Bacterial kit

For 1200µl sample volumes.

Contents: Pre-Filled Cartridges, Lysozyme Reaction Buffer, Proteinase K, PK Storage Buffer, Rnase A, Disposable Tip & Holder Sets, Sample Tubes, Elution Tubes

Shelf life: 18 months

MBB-01SP	MBB-02SP	39 min (sample volume:200µl) *optical detection is not provided	MBB-01	MBB-02	44 min (sample volume:200µl)
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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



RBC Bioscience Corp.

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FDA (10055336) registered and CE-IVD certified (Instruments & Reagents)

Manufactured in accordance with quality system requirements that comply with ISO 13485 standards and QSR