

MagCore® Nucleic Acid Extraction Kits



MagCore® Automated Nucleic Acid Kits Selection Guide



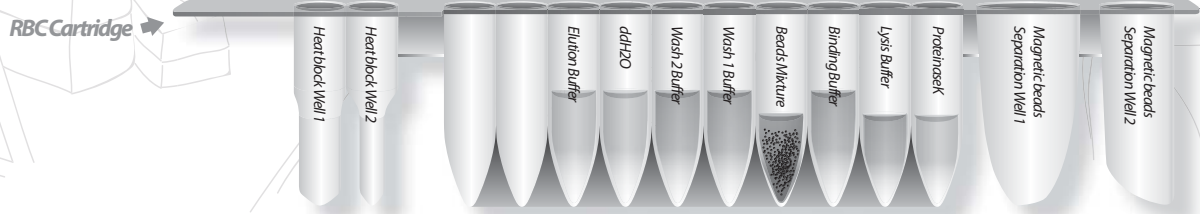
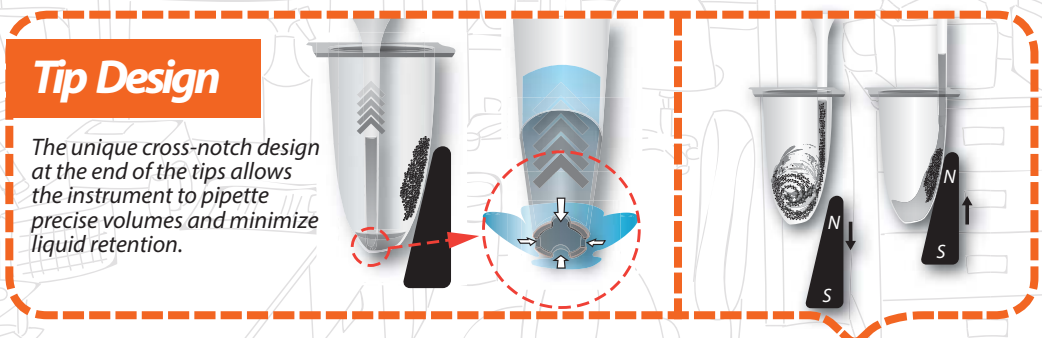
	Cat.No.	Cat.No.	Cat.No.	Cat.No.	Whole Blood	Buffy Coat	Plasma/Serum	Cell-free body fluids	Urine	Free circulating DNA	Cultured Cells	Animal Tissue	Plant Tissue	Bacterial/Sputum	Swab	FFPE	Stool	Forensic Specimens
Genomic DNA	101 MagCore® Genomic DNA Whole Blood Kit (Speedy installation)	MGB400-01 MGB400-01SP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

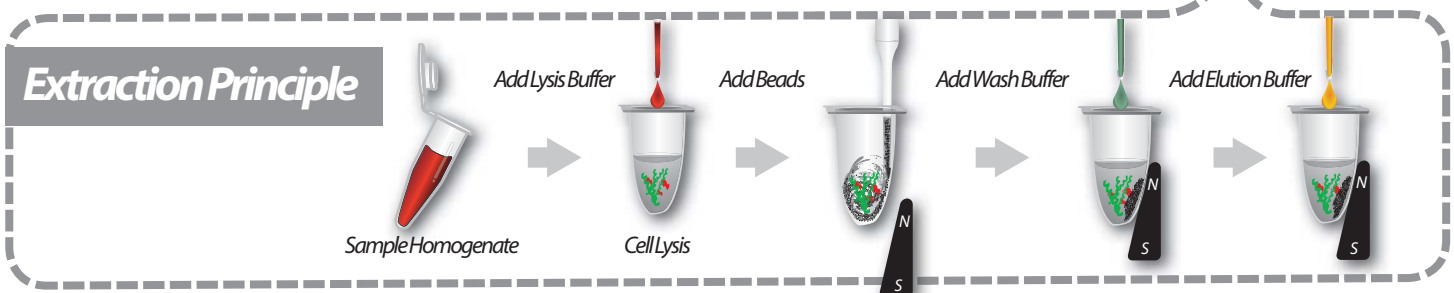


MagCore® cartridges include all reagents needed for purifications, no additional handling is necessary. We minimize any possible contamination and spillage with an automated piercing step for our pre-sealed cartridges. RBC patented Heating Well and Separation Well in the cartridge provide a strong circular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

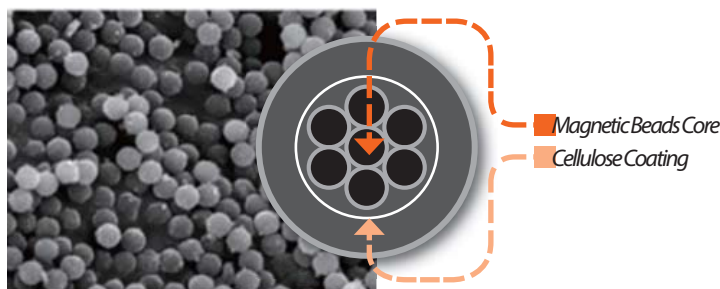


Each cartridge has 14 positions available with 10 sealed wells and 2 heating chambers.



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



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® Nudeic Acid Extraction Kits



For extraction of genomic DNA from forensic samples

MagCore® Genomic DNA Forensic Direct Kit is designed for purifying total DNA from forensic samples, such as dried blood spots, cigarette butts, cartilage, hair roots, seminal stains, and chorionic villus, using MagCore® auto-extraction instruments. Its unique feature is RBC patented technology that allows to isolate DNA automatically from solid samples without any pretreatment.

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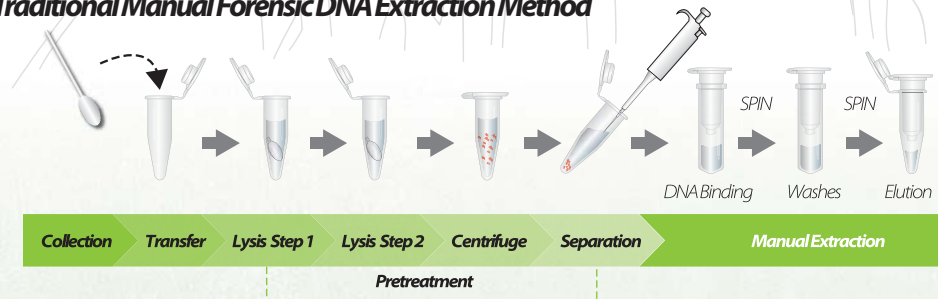
MagCore® Forensic DNA Direct Kit



Applications

It uses magnetic-particle technology to purify genomic DNA from forensic samples. The purified genomic DNA can be directly used for downstream applications such as STR, PCR and real-time PCR.

Traditional Manual Forensic DNA Extraction Method



Automated Lysis and Separation

MagCore® Forensic DNA Direct Kit Method

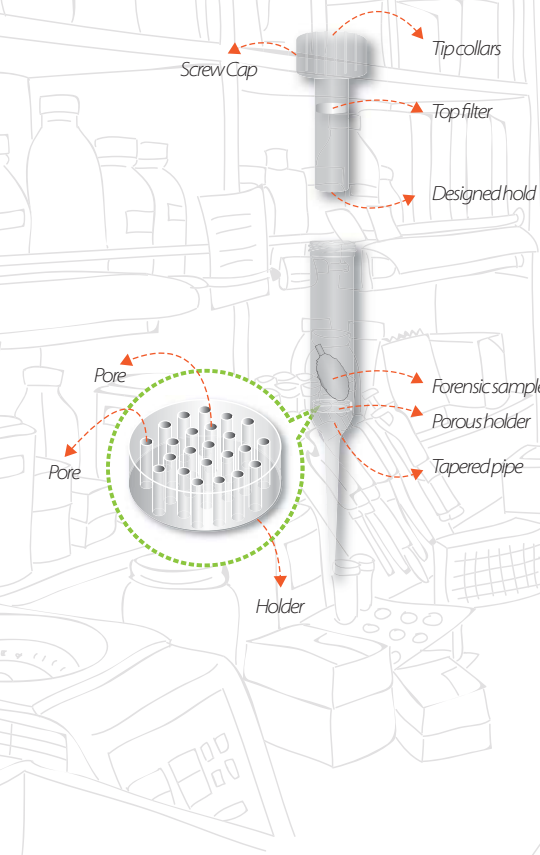


Performance

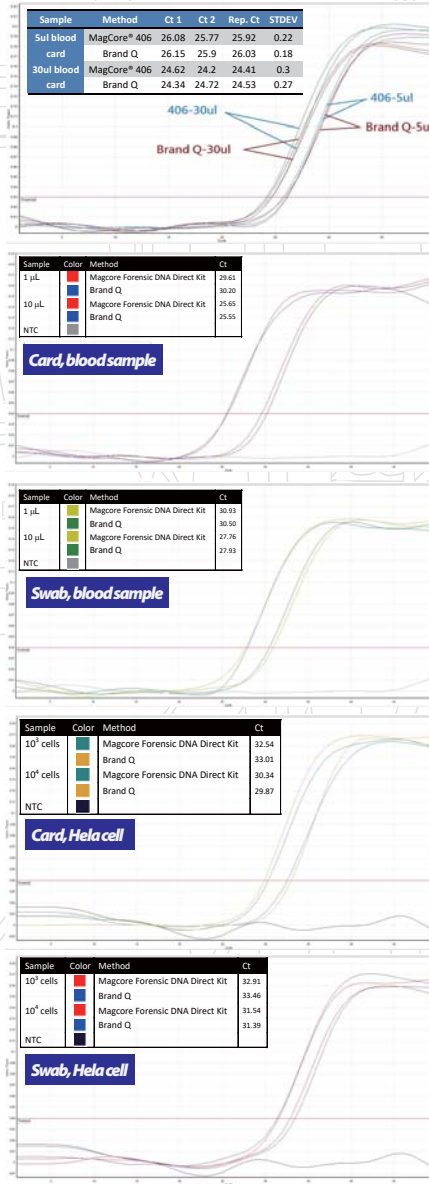
Unique Pipette Tip Design

Novel Patented Tip

- Airtight assurance (hemetic seal)
- Minimal aerosol contamination
- Automatic separation of the solid debris



Compare the results between 406 and Q kit by qPCR



Other casework samples

Reference samples

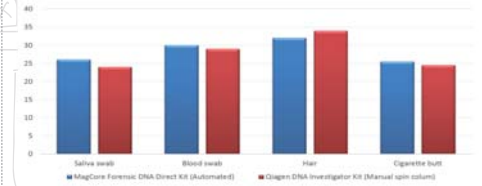


Figure: Extraction of simulated casework samples. This test was analyzed by real-time PCR with GAPDH gene primer. Saliva swab: 10 ml of saliva was applied (n=4). Blood swab: 1 ml of blood was applied and allowed to dry (n=4). Hair: 1 hair each from donor (n=4). Cigarette butt: A quarter of a filter paper (n=4).

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® Forensic DNA Direct Kit

For extracting genomic DNA from forensic samples

Contents: Pre-Filled Cartridges (Including Proteinase K), Disposable Tip & Holder Sets, Elution Tubes, FS Tip, 200 ml SP Tip

Shelf life: 12 months

MFC-03SP	120 min
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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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