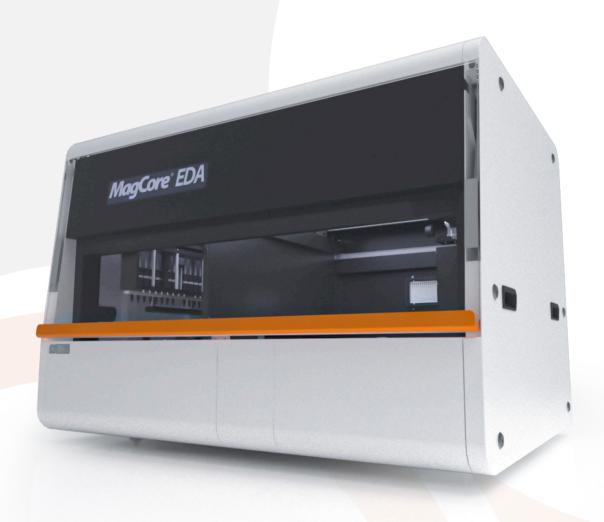
RBCBioscience

MagCore EDA



Automated Premium DNA/RNA Extraction & Smart PCR Setup Solution

AUTOMATED NUCLEIC ACID EXTRACTOR

- 16 1-16 Samples
- 24 1-24 Samples
- 48 1-48 Samples
- Spectrophotometer
- Touch Screen
- UV Decontamination
- Barcode Scanner
- Thermo Printer
- Built-in Programs
- USB Output
- Progress Monitoring
- LIMS
- HEPA
 Decontamination
- PCR set up
- PC Operation Interface



MagCore®Plus II

Process Monitoring through your Smartphone





MagCore®Super

Spectrophotometer Built-in













PCR Product



Whole Blood, Buffy Coat, Plasma/Serum, Cell-free body fluids, Free circulating DNA, Amniotic Fluid, Cultured Cells, Animal Tissue, Plant Tissue, Bacteria/Sputum, Swab, FFPE, Stool, Forensic Specimens

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Viral Nucleic Acids Plasma/Serum, Cell-free body fluids, Urine, Swab



Whole Blood, Plasma/Serum, Cell-free body fluids, Cultured Cells, Animal Tissue, Plant Tissue

MagCore® EDA

Automatic Extraction and Smart PCR Setup















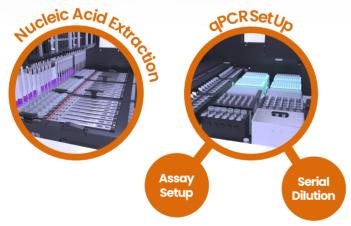


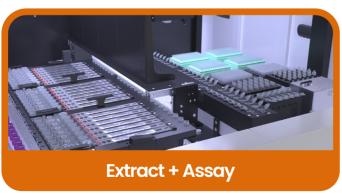




MagCore® EDA system is new generation instrument for nucleic acid extraction and PCR setup pre-treatment. MagCore® EDA can process up to 48 samples and a built-in spectrophotometer which makes it a complete solution to increase laboratory efficiency and simplify the workflow. Users can benefit from automatic purification, OD values retrieval, high NA concentration in final elute and compatibility with LIMS. Using MagCore extraction kits, MagCore® EDA offers consistent, reliable DNA or RNA extraction in 30–120 minutes, depending on the sample type.

3 Modes Of Operation

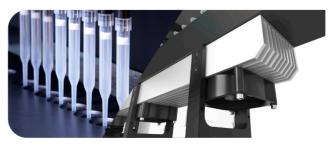




PC USB Connection Interface



Built-in Thermoelectric Cooler



Extracted DNA/RNA Can Be Temporarily Stored At 4~10°C

Worldwide Patented Magnetic Beads

Cellulose-coated magnetic beads, coupled with our patented binding and separation technology, guarantee high quality extracts.

UV Decontamination

The equipped UV lamp minimizes the risk of cross-contamination and ensures user and product safety.

HEPA Decontamination

HEPA system is installed in the PCR set up zone to eliminate contamination and ensure the purity of the samples.

Throughput up to 48 samples

From cartridge piercing to final elute, all steps are performed by the instrument, that allows running 1-48 samples. The instrument processed samples in batches of 24 at a time and has run setting for 24/48 sample to be processed at once, for time saving and flexible performance.

Ideal for both DNA/RNA extraction

Built-in protocols are created for extracting nucleic acids from a wide range of samples, including whole blood, plasma (circulating free nucleic acid), tissue, bacteria, virus, plant and forensic.

Automatic Optical Measurements of OD Values

Built-in spectrophotometer and our optical module provide users the option to automatically measure OD values and concentration of final eluates upon completion of the nucleic acid extraction process.

Automatic Barcode Scanning

Barcode reading of primary tube simplifies the tracking of the samples and ensures traceability.

Smart PCR setup

The system has 10 SBS positions, the option of keeping premixes cool, the option of using 0.1- and 0.2-ml standard tubes, along with customized tubes from other PCR suppliers.

Specification Model System Method Cellulose coated magnetic beads Pipetting Unit: dispensing, transferring, 2 X-Y axis model Electric Control: PLC model and Arm-based main board embedded in UV Light: power 8W, life duration 11,000hrs Contamination Prevention: HEPA filtration, Pipette tips with filter Heating Block: RT-95℃ Nucleic Acid Concentration Detection Source: D2 Jamp **System Components** Wavelength Detection: 230nm, 260nm, 280nm Liquid detection sensor: PCR setup Zone Automatic Barcode Scanning: Primary tube 10. Accessories: T-rack, Cartridge racks, trash drawer, 96-well PCR plate rack, 32-well 1.5ml tube rack 11. Thermoelectric Cooler 4~10°C 12. Stand (optional) **Power Supply** Voltage: AC 200-240V; Frequency: 50/60Hz Dimension W1240*D920*H830 (mm) / W48.81 x D36.22 x H32.67(inches) Dimension (with stand) W1240*D920*H1580 (mm) / W48.81 x D36.22 x H62.2(inches) **Net Weight** 335 Ka / 739 lbs Net Weight (with stand) 460 Kg / 1,014 lbs

Operating Parameters

Processing Capacity	1-48 samples (in batches of 24)					
Processing Time	30-120minutes (depends on sample type)					
Sample Volume	200/400/1200/4000 µl (application dependent)					
Elution Volume	30/40/60/100/150/200 µl (application dependent)					
Yield	200µl whole blood (average 6µg gDNA) 400µl whole blood (average 12µg gDNA)					
Purity	DNA: O.D A260/A280 ratio 1.8±0.1 RNA: O.D A260/A280 ratio 2.0±0.2					
Pipetting Accuracy	Extraction Zone: 40µl <5%; 60µl <2%; 100-900µl <1.5%					
	PCR setup Zone: CV<1%, 5~50µl; CV<5%, 2~5µl; CV<10%, 1µl					

Operating Environment

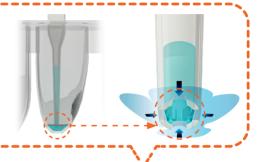
Temperatures allowed uring transportation, storage, and packaging	15℃-35℃
Temperatures allowed during operation	18°C -30°C
Pollution Degree	Level 2

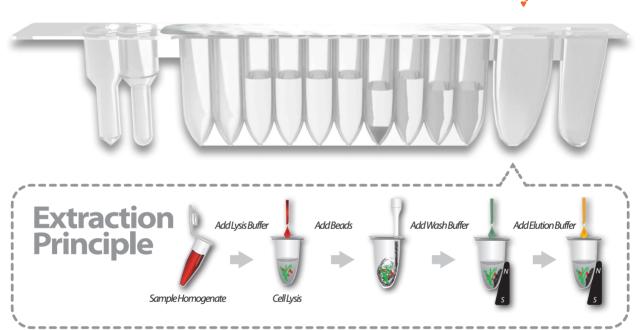
Cartridge Design & Extraction Principle

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.

Tip Design

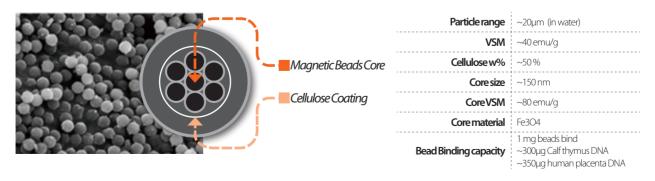
The unique cross-notch design at the end of the tips allows the instrument to pipette precise volumes and minimize liquid retention.





Worldwide Patented Magnetic Beads

Our design: multiple core inside, cellulose coating.



Automated Nucleic Acid Kits

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.

NGS	Genomic DNA		Viral Nucleic Acids		Total RNA	
Clean Up &	Whole Blood Free Circulating DNA		Plasma/Serum		Micro RNA	
Size Selection			Cell-	free body fluids	FFPE	
	Cultured Cell		Urin	e	Cells	
	Plant		Swa	b	Who	le blood
William .	Tissue				Tissues	
	FFPE					
	Forensic					
	Bacterial					
				O Salva		MagCare

Genomic DNA

101

Genomic DNA Whole Blood Kit (Speedy installation)

102

Genomic DNA Whole Blood Kit

104

Genomic DNA Large Volume Whole Blood Kit (1.2 ml)

105

Plasma DNA Extraction Kit (1.2 ml)

115

Circulating DNA large volume kit (3-4 ml)

106

Genomic DNA Whole Blood Kit (For Genotyping)

110

Cultured Cells DNA Kit

301

Genomic DNA Plant Kit

401

Genomic DNA Tissue Kit

405

Genomic DNA FFPE One-Step Kit

406

Forensic DNA Direct Kit

502

Genomic DNA Bacterial Kit

504

Gut Microbiome DNA Kit

NGS **701**

NGS Auto Size-Select purification Kit

Viral Nucleic Acids

202

Viral Nucleic Acid Extraction Kit (Low PCR Inhibition)

203

Viral nucleic acid extraction kit (high sensitivity)

220

Viral Nucleic Acid Large Volume Extraction Kit (2.4 ml) High Sensitivity

211

Viral Nucleic Acid Large Volume Extraction Kit (1.2 ml)

Total RNA

605

Total RNA FFPR One-step Kit

620

miRNA Extraction Kit

631

triXact RNA Kit



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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