

MagCore® Nucleic Acid Extraction Kits



For extraction of genomic DNA from tissues, swabs, FFPE, stool, feed/soil and forensic samples

MagCore® Genomic DNA Tissue Kit is designed for purification of total DNA (including genomic, mitochondrial and viral DNA) from a variety of animal tissues or cells by using MagCore® auto-extraction instrument. The provided Filter Column can filtrate hard tissue sample or swab sample to prevent tissue residues to obstruct pipette tip during the process of MagCore®. The method uses pre-filled cartridges based on cellulose coated magnetic bead technology.

401

401 MagCore® Genomic DNA Tissue Kit



Features

1. Suitable for a wide variety of sample types, including forensic samples
2. Consistent and reproducible results
3. Purified DNA of approximately 20-30 kb in length is suitable for PCR or other enzymatic reactions.

Applications

MagCore® Genomic DNA Tissue kit allows processing multiple sample types in the same run, including:

1. Animal Tissues: Solid animal tissue, Stool samples
2. Swabs
3. Feed and soil samples
4. Formalin-fixed, Paraffin-embedded (FFPE) tissues samples (manual pretreatment)
5. Cultured Yeast samples
6. Forensics samples



Performance

DNA yield gained from 10mg of mice tissue samples and 0.25 cm tail

Mice tissue	Yield (ng/ul)
Liver	17.5
Spleen	17.5
Brain	10
Lung	12.5
Kidney	32.5
Tail	7.5

Table 1. Genomic DNA was purified from 10mg of mice tissue samples and 0.25cm tail.

Yield and quality of gDNA purified using MagCore® 401 Extraction Kit

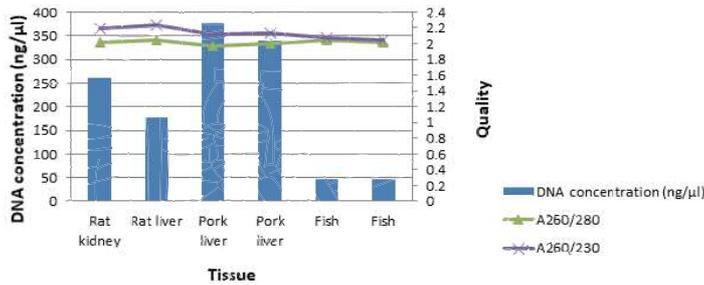


Figure 1. Genomic DNA from 10mg of various animal tissues were extracted by the MagCore®401 Genomic DNA Tissue Kit. DNA was eluted in 60µL and quantitated using Nanodrop n-1000.

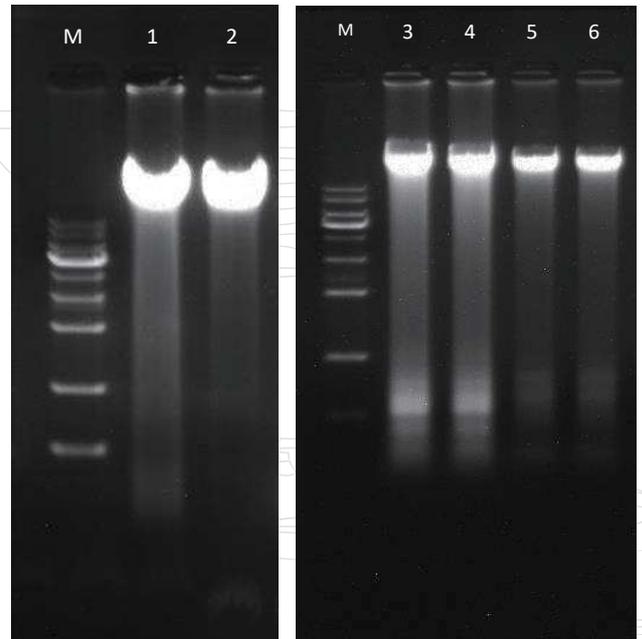


Figure 2. Agarose gel electrophoresis of the various animal tissue DNA was isolated from MagCore® automated extraction. ; Lane M: RBC 1 kb DNA ladder Marker; Lane 1: Rat kidney; Lane 2: Rat liver; Lane 3-4: Pork liver; Lane 5-6: Fish tissue.

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
401	36 preps	72 preps	96 preps	33 min (sample volume:400 µl) *optical detection is not provided	36 preps	72 preps	96 preps	33 min (sample volume:400 µl)
	MGT-F01	MGT-F02			MGT-F01	MGT-F02		

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



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

