

MagCore® Nucleic Acid Extraction Kit User's Manual

CONTENTS

How to use the kit.	
Introduction of each	h MagCore®Nucleic Acid Extraction kits
Kit Contents, Descri	ption, Applications, Pretreatment, Protocol
MagCore®Genomi Cartridge Code 101	c DNA Whole Blood Kit (Speedvinstallation)11
MagCore®Genomi Cartridge Code 102	c DNA Whole Blood Kit
Cartridge Code 104	c DNA Large Volume Whole Blood Kit
Cartridge Code 105	DNA Extraction Kit (1.2 ml)
Cartridge Code 106	C DNA Whole Blood Kit (For Genotyping)
Juliu yo oo u o u o u o u	Cat.No.MCC-01 //MCC-02 (HF16, Compact) Cat.No.MCC-01SP // MCC-02SP (Super, HF16 Plus)
Cartridge Code 201	cleic Acid Extraction Kit
Cartridge Code 202	cleic Acid Extraction Kit
MagCore®Viral Nuc Cartridge Code 210	cleic Acid Large Volume Extraction Kit (2.4 ml)
MagCore®Viral Nuc Cartridge Code 211	c leic Acid Large Volume Extraction Kit (1.2 ml)
MagCore®Genomi Cartridge Code 301	c DNA Plant Kit
MagCore®Genomi Cartridge Code 401	c DNA Tissue Kit
Cartridge Code 405	C DNA FFPE One-Step Kit
MagCore®Forensic Cartridge Code 406 MagCore®Genomi	Cat.No.MFC-03SP(Super, HF16 Plus)
Cartridge Code 502	Cat.No.MBB-01 //MBB-02 (HF16, Compact, HF48) Cat.No.MBB-01 SP//MBB-02SP (Super, HF16 Plus)
333 .	Cat.No.MRN-01 // MRN-02 (HF16, Compact) Cat.No.MRN-015P // MRN-02SP (Super, HF16 Plus)
3	Cat.No.MRC-01 // MRC-02 (HF16, Compact) Cat.No.MRC-01SP // MRC-02SP (Super, HF16 Plus)
MagCore® triXact R Cartridge Code 631	NA Kit
	59
	iuide
Oraering Informati	on62

Precautions

I) Before Using

- Do not operate MagCore® without qualified operation training.
- Read user's manual carefully before operation.

II) Handling Requirements

- Do not use a kit after its expiration date.
- Do not touch the reagents with bare hands. Keep away from your skin, eyes, or mucous membranes. If contact does occur, wash the affected area immediately with large amounts of water. If you spill the reagents, dilute the spill with water before wiping it up.
- Do not allow reagents to mix with sodium hypochlorite solution or strong acids. This mixture can produce a highly toxic gas.

III) Laboratory Procedures

- Handle all samples and the resulting waste as if potentially infectious, using safe laboratory procedures. As
 the sensitivity and titer of potential pathogens in the sample material varies, the operator has to optimize
 pathogen inactivation by the Lysis Buffer or take appropriate measures according to local safety regulations.
 RBC Bioscience does not warrant that samples treated with Lysis Buffer are completely inactivated and
 noninfectious. After sample processing is completed, remove and autoclave all disposable plastics.
- Do not eat, drink or smoke in the laboratory working area.
- Wear protective disposable gloves, laboratory coats and goggles when handling samples and kit reagents.
- Do not use sharp or pointed objects when working with the reagent cartridges, this is to prevent damage of the sealing foil and loss of reagent.
- Do not contaminate the reagents with bacteria, virus, or ribonuclease. Use disposable pipettes and RNasefree pipette tips only to remove aliquots from reagent bottles. Use the general precautions described in the literature.
- In the begeing and at the end of the protocol run, you may optionally choose to perform a UV decontamination run for 30 min.
- Wash hands thoroughly after handling samples and test reagents.

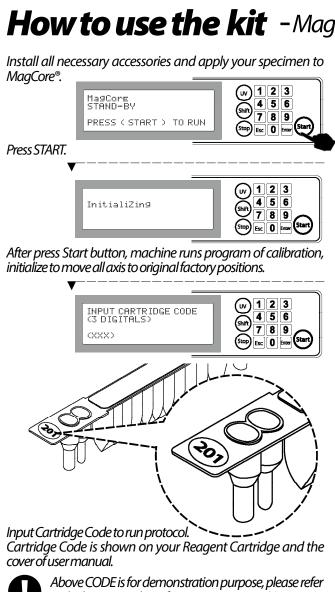
IV) Waste Handling

Discard unused reagents and waste complied with country, federal, state and local regulations.

IVD Symbols Reference

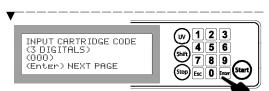
Reference symbol	Description of symbol
(€	CEmark
IVD	In Vitro Diagnostic Device
EC REP	Authorized representative in the European Community
	Manufacturer
$\overline{\Sigma}$	Content sufficient for <n> tests</n>
<u>A</u>	Warning:electricity
③	Instruction manual must be read before operating
	Consult instructions for use
	Alternate current input
	Use-by Date
+15°C-	Temperature storage conditions +15℃/+30℃
*	After mixing store at 0° C/+ 8° C
REF	Catalogue number (product code)
LOT	Lot number
MOD	Model
NUM	Numberofaliquots
INCL	Included in the product
CART CODE	Cartridge code number
STERILE	Sterile
STERILE R	Sterilized using irradiation
SN	Serial Number
	Fuse

How to use the kit -MagCore®HF16 and Compact





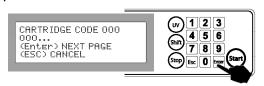
to the kit you purchase for proper program CODE.



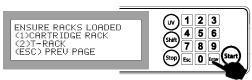
Confirm your input code again and press Enter to next page for sample volume selection.



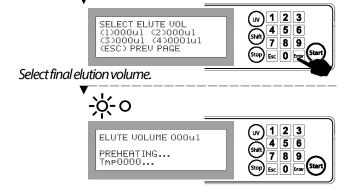
Select Sample Volume.



Confirm your input Sample Volume. Press Enter for next page, Press ESC for back to Stand-By page.



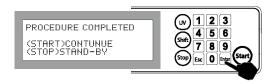
At this step prepare racks to operation area. After racks loaded then press Enter to next page for elution volume selection.



MagCore® in process of selected protocol at this step. The Green Indicate LED lights up and Heating Block starts to heat up to 65°C for Lysis Step.

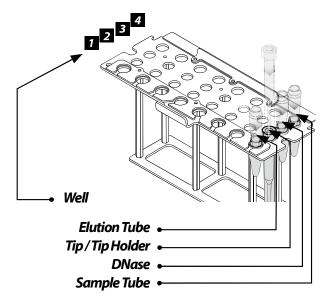
While MagCore® is under program running, the "MagCore" LCD lights up at all times.

DO NOT open the door at this moment, it causes emergent stop and you might lose your samples by machine interruption.



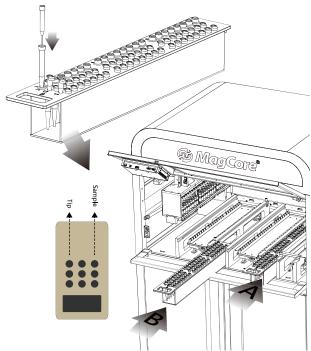
While program finished, a beep sound can be heard and Green Indicate LED light went out.

Well Position of T-Rack



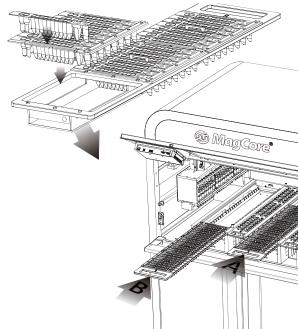
How to use the kit -MagCore®HF48

Install Tip and Sample Tube.



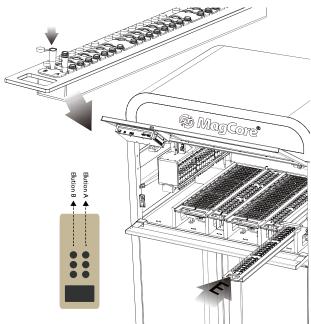
Insert the Tips and Sample Tubes in the slots of the Tip Carriers and then respectively put the whole sets of Tip carriers at the slots of the area A and area B according to the indicators.

Install Cartridge



Insert the Cartridges in the Cartridge Racks and put the Cartridge Racks into the Cartridge Carriers and then respectively put the whole sets of Cartridge Carriers at the slots of the area A and area B according to the indicators

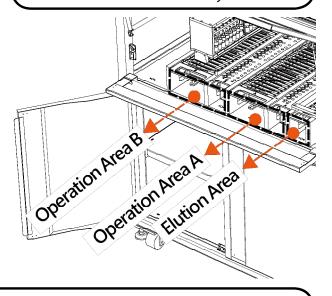
Install Elution Tube



Put the Elution Tube in the corresponding positions according to the area A and area B and then put the Elution Carrier in the Elution slots.

Warning:

The Carriers of the area A can only be used in the area A; similarly, the Carriers of the area B can only be used in the area B, or the system may not detect the Carriers and cannot work normally.





Waning:

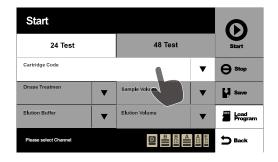
Please don't use any other centrifuge tubes to replace the Sample Tube of the reagent kit. The height of other sample tubes may be different from that of the Sample Tubes of the reagent kit, which may influence the extraction result.



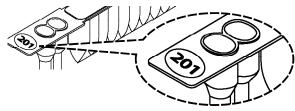


Press Start key in the main functional window.

Select 24 or 48 test channels.



Select Cartridge number. Cartridge number is marked on the Cartridge you use.

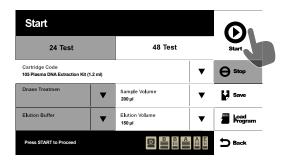


Please reconfirm the number you selected and select all parameters.

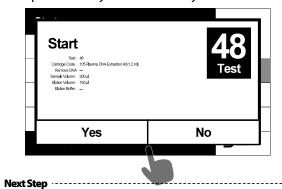


Confirm that the icon in the status bar is in normal status. If the icon shows, the Start key will be at "inactive" status and the operation is disabled. Please follow the display portion to remove error to solve. (Refer to page 8 for warning marks)

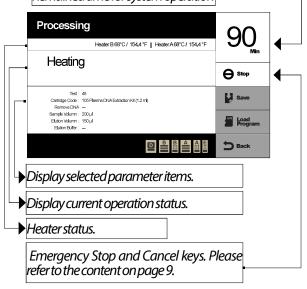
▼ Next Step



When you finish input and press Start key, the system will show a confirmation window, on which there are the parameters you input. Please press Yes to operate the system if the parameters are not incorrect. Please press No to modify incorrect parameters if you want to modify.



Remained time for system operation



You may watch the procedure status and remained time of the current operation on the control panel. The system will display Complete page after completion.



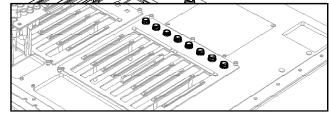
It is recommended not to open the viewing window or feeding door to prevent from poor extraction result in system operation if there is no emergency.

How to Use the Kit- MagCore® Super/MagCore® HF16 Plus

Install MagCore® Cuvette

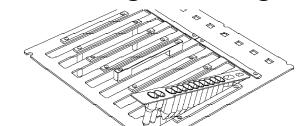
(MagCore®Super Only / for optic test)

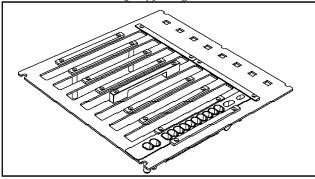
When installing it, please do not scratch the optic test window.



- 1. Please put MagCore® Cuvette into the corresponding sample's well. The installation of Cuvette is directional. It is impossible to put it into the well if the direction is not correct.
- 2. Put the 200 μl SP tip into the W4 of the T-Rack.

Install reagent cartridge



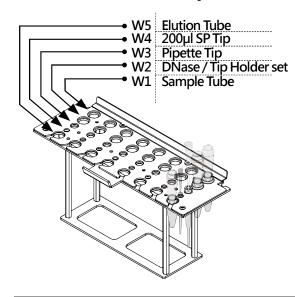


Please insert the front end of the cartridge into the space below the fixing plate of the Cartridge Rack.

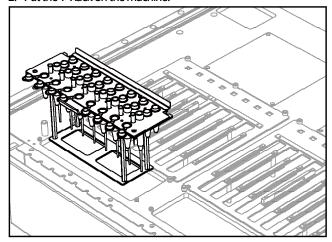


Please insert the Cartridge Rack before the T-Rack.

Install Tube, Tip



- 1. Put the tip into the corresponding well according to the left figure.
- 2. Put the T-Rack on the machine.





Warning:

Please do not use the Tips and Tubes which are not provided by the original manufacturer. The test result may be not correct and the machine may be damaged due to different Tips and Tubes.

- Start Programs

Please pretreat the sample according to the instructions of the user manual of the MagCore® Kit and put consumables into the machine.



Press Start to go to the next step.

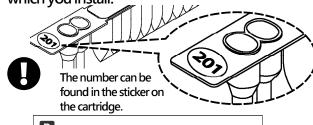


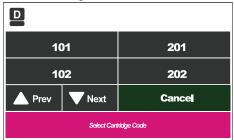
System will ask you whether or not to scan the barcode.



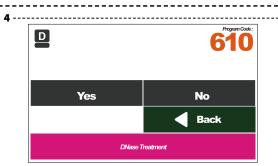
If there is a barcode record from previous test processes, the system will ask you whether or not to delete previous barcode record. If there is no barcode record, the system will not ask you. (MagCore®Super only; HF16 Plus optional)

Please confirm the number of the reagent set which you install.

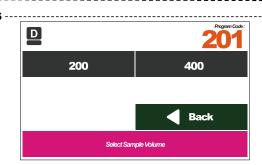




Select the number of the cartridge.



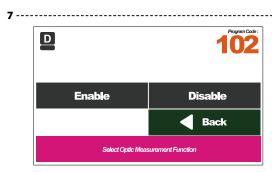
Select DNase Treatment. (Only for RNA kit.)



Select Sample Volume.



Select Elution Buffer. (Only for tissue kit.)



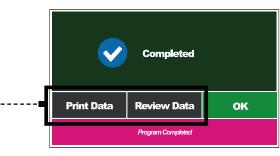
Select to enable or disable the optic measurement function. (MagCore®Super Only) (201, 202, 211, 105 without the function)



Please confirm the parameters and press the Start button to execute the program.



Automatic extraction process.

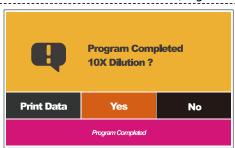


The extraction process is completed.

If you select the optic measurement funtion, you can browse, print or output the test result to a USB Flash Drive.

If the test result of the optic measurement is over detection

(MagCore®Super Only)



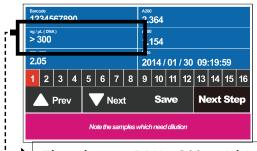
If the test result of the optic test shows the concentration is over detection (DNA > 300 ng/µl / RNA > 240 ng/µl), the system will ask you to dilute.



A.Please record and save the current measured data.



Please select YES.



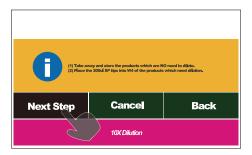
The values are DNA >300 ng/µl / RNA > 240 ng/µl

Please check the value of each sample. If there is a value showing DNA > 300 ng/µl or RNA > 240 ng/µl, please record the number of the sample. It means the sample needs to be diluted. After recording the number of the slot, please insert the USB Flash Drive and press the Save button to save to current measured data. After finishing the above steps, please press Next Step.

Siep |

Please save the data in the USB Flash Drive and transfer to computer, or the data in the USB Flash Drive may be overwritten later.

File name: OpticsSampleData.csv



B.Prepare to dilute

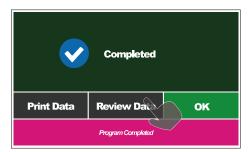
- 1. Please take out the elution products which are no need to be diluted.
- Please put a new 200µl SP Tip in the W4 corresponding to the sample to be diluted.
- 3. Press Next Step to continue the process.



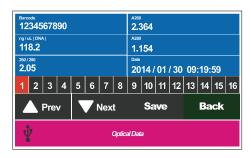
Please confirm and press Start to dilute it.



Diluting.



The diluting process is completed; please press Review Data to show the measured value after dilution.



C. Record and save the measured values.

- 1. Insert the USB Flash Drive and then press the Save button to save the current measured values after the USB icon shows in the status bar. Please take out the USB Flash Drive and then you can perform other operations after the icon of USB Flash Drive disappears.
- The file saved last time and this file are all data obtained from this test.
 If the file saved last time is lost, you can retrieve this file according to the instructions of optic test data chapter.



Please save the data in the USB Flash Drive and transfer to computer, or the data in the USB Flash Drive may be overwritten later.

File name: OpticsSampleData.csv

Previous file name: Pre_OpticsSampleData.csv

MagCore®

MagCore®Genomic DNA Whole Blood Kit (Speedy installation)

For purification of genomic DNA from human whole blood Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 101

Cat.No.MGB400-01 // MGB400-02 (HF16, Compact, HF48) Cat.No.MGB400-01SP // MGB400-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat.No. MGB400-01 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	36 sets.
Sample Tube	36 pcs.
Elution Tube	36 pcs.
Cat.No. MGB400-01SP Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipette Tip	36 pcs.
Sample Tube	36 pcs.
Elution Tube	

Cat.No. MGB400-02 Contents:

Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	
Sample Tube	100 pcs.
Elution Tube	

Cat.No. MGB400-02SP Contents:

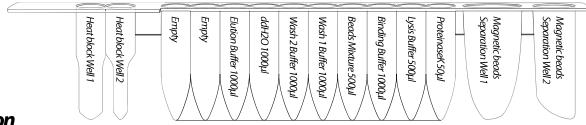
Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	
Sample Tube	100 pcs.
Elution Tube	100 pcs.

Storage and Stability:

1. This kit should be stored at room temperature.

2.Shelflife 12 months.

Cartrige Contents:



Description

MagCore® Genomic DNA Whole Blood Kit is designed for purification of total DNA (including genomic, mitochondrial and viral DNA) from whole blood, plasma, serum, buffy coat by using MagCore® auto-extraction instrument. The method uses pre-filled cartridge which contains proteinase K and chaotropic salt to lyse cells and degrade protein.

DNA will bind to cellulose coated magnetic beads. After washing off the contaminants, the purified DNA is eluted by low salt elution buffer. Purified DNA of approximately 20-30 kb in length is suitable for PCR or other enzymatic reactions.

Applications

Using magnetic-particle technology to purify genomic DNA from fresh whole blood. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, restriction enzyme digestion, southern blotting... etc.

Whole Blood Protocol

- 1. Pipet 200/400µl of equilibrated whole blood sample to MagCore®Sample Tube.
- 2. Put the prepared Sample Tube into the correct well of T-Rack.
- 3. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 4. Run Code.101 program at MagCore®.

Optional Step: RNA Degradation

If RNA-Free genomic DNA is required, perform these optional steps.

- 1. Add 4µl RNase A(50mg/ml; not provided) into the sample lysate.
- 2. Incubate the sample at room temperature for 20min.

Buffy Coat modify Protocol

RBCLysis Buffer:

150mMNH₄CI, 10mMKHCO₃, 0.1mMEDTA.

Buffy Coat Preparation by RBC Lysis

1. Take 600 ~ 700 µl whole blood into 2ml microcentrifuge tube.

Don't take more than 700µl whole blood sample; it will cause the leakage situation during process.

- 2. Add 1ml RBC Lysis Buffer and mix the buffer and whole blood sample by upside down.
- 3. Shakethemixture, 100rpm 5mins.
- 4. Centrifuge the mixture 13,000rpm 1 min.
- 5. Discard supernatant.
- 6. Repeat step 2 ~ step 5 to wash the sample again.
- 7. Add 400µl RBC Lysis Buffer to resuspend the pellet and transfer into MagCore® Sample Tube.
- 8. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 9. Put Elution Tube and Tip Plus Holder Set (HF16,Compact)/Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10) 10.Run Code.101 program at MagCore®.

Buffy Coat Preparation by Centrifugation

- 1. Take 2~5ml whole blood sample and centrifuge at 1,500rpm 10mins.
- 2. Use plastic drop to take white buffy coat layer in the middle of whole blood sample.
- 3. Move the buffy coat into new microcentrifuge tube.
- 4. Take 80 ~ 100µl buffy coat sample into MagCore® Sample Tube and add RBC Lysis Buffer or PBS until 400µl.
- 5. Put the prepared Sample Tube into the correct well of T-Rack.
- 6. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 7. Run Code.101 program at MagCore®.

Note: We suggest to select 150 ~200µl elution buffer, it can get better elution efficiency in both of these methods. Normally the concentration is higher than 150ng/µl under such elution volume.

MagCore® Genomic DNA Whole Blood Kit

For purification of genomic DNA from human whole blood Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 102

Cat.No.MGB400-03 // MGB400-04 (HF16, Compact, HF48) Cat.No.MGB400-03 SP// MGB400-04SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

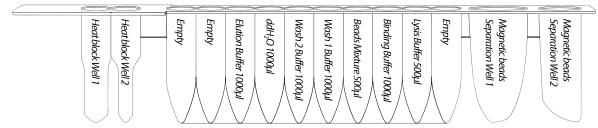
Cat.No. MGB400-03 Contents:	
Pre-filled Cartridge Reagent	36 pcs
Pipet Tip plus Holder Set	36 sets
Sample Tube	36 pcs
Elution Tube	36 pcs
Proteinase K(11mg)	2 pcs
PK Storage Buffer	2 pcs
Cat.No. MGB400-03SP Contents:	
Pre-filled Cartridge Reagent	36 pcs
Pipette Tip	36 pcs
Sample Tube	36 pcs
Elution Tube	36 pcs
Proteinase K(11mg)	2pcs
PK Storage Buffer	2 pcs

Cat.No. MGB400-04 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Proteinase K(11mg)	4 pcs.
PK Storage Buffer	
_	
Cat.No. MGB400-04SP Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Proteinase K(11mg)	4pcs.
PK Storage Buffer	4 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Proteinase K should be store at 4 °C upon arrival.
- 3. Shelf life 18 months.

Cartridge Contents:



Description

MagCore® Genomic DNA Whole Blood Kit is designed for purification of total DNA (including genomic, mitochondrial and viral DNA) from whole blood, plasma, serum, buffy coat by using MagCore® auto-extraction instrument. The method uses pre-filled cartridge which contains chaotropic salt to lyse cells and degrade protein. DNA will bind to cellulose coated magnetic beads. Afterwashing off the contaminants, the purified DNA is eluted by low salt elution buffer. Purified DNA of approximately 20-30 kb in length is suitable for PCR or other enzymatic reactions.

Applications

Using magnetic-particle technology to purify genomic DNA from fresh whole blood. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, restriction enzyme digestion, southern blotting... etc.

1. Add 1.1 ml PKStorage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10 mg/ml) at 4° C.

Whole Blood Protocol

- Take a new Sample Tube and add 20µl of Proteinase K (10mg/ml) to 200µl of equilibrated whole blood sample.
 (40µl Proteinase K to 400µl whole blood).
- Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 3. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 4. Run Code.102 program at MagCore®.

Optional Step: RNA Degradation

If RNA-Free genomic DNA is required, perform these optional steps before adding Proteinase K.

- 1. Add 4µl RNase A(50mg/ml; not provided) into the sample lysate.
- 2. Incubate the sample at room temperature for 20min

Buffy Coat modify Protocol

RBCLysis Buffer:

150mMNH₄CI, 10mMKHCO₃, 0.1mMEDTA.

Buffy Coat Preparation by RBC Lysis

1. Take 600 ~ 700 µl whole blood into 2ml microcentrifuge tube.

Don't take more than 700µl whole blood sample; it will cause the leakage situation during process.

- Add 1ml RBCLysis Buffer and mix the buffer and whole blood sample by upside down.
- 3. Shakethemixture, 100rpm 5mins.
- 4. Centrifuge the mixture 13,000rpm 1 min.
- 5. Discard supernatant.
- 6. Repeat step 2 ~ step 5 to wash the sample again.
- Add 400µl RBCLysis Buffer and add 40µl of proteinase K to resuspend the pellet and transfer into MagCore® Sample Tube.
- 8. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 9. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10) 10.Run Code.102 program at MagCore®.

Buffy Coat Preparation by Centrifugation

- 1. Take 2~5ml whole blood sample and centrifuge at 1,500rpm 10mins.
- 2. Use plastic drop to take white buffy coat layer in the middle of whole blood sample.
- 3. Move the buffy coat into new microcentrifuge tube.
- $4. \ \ \, \text{Take 80} \sim 100 \mu l \, \text{buffy coat sample into MagCore} \\ \text{Sample Tube and add RBCLysis Buffer or PBS until 400} \\ \mu l \, \text{then add 40} \\ \mu l \, \text{of protein as e.K.} \\ \text{Take 80} \sim 100 \mu l \, \text{buffy coat sample into MagCore} \\ \text{Sample Tube and add RBCLysis Buffer or PBS until 400} \\ \mu l \, \text{then add 40} \\ \mu l \, \text{of protein as e.K.} \\ \text{Take 80} \sim 100 \mu l \, \text{then add 40} \\ \mu l \, \text{of protein as e.K.} \\ \text{Take 80} \sim 100 \mu l \, \text{then add 40} \\ \mu l \, \text{then add 40} \\ \mu l \, \text{then add 40} \\ \text{then$
- 5. Put the prepared Sample Tube into the correct well of T-Rack.
- 6. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 7. Run Code.102 program at MagCore®.

Note: We suggest to select 150 ~200µl elution buffer, it can get better elution efficiency in both of these methods. Normally the concentration is higher than 150ng/µl under such elution volume.

MagCore® Genomic DNA Large Volume Whole Blood Kit

...96 pcs. .100 pcs.

For purification of genomic DNA from human whole blood (1.2 ml) Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 104

Cat.No.MGB1200 (HF16, Compact, HF48) Cat.No.MGB1200SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat.No. MGB1200 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	
Proteinase K(11mg)	8 pcs.
PK Storage Buffer	8 <i>pcs</i> .
Cat.No. MGB1200SP Contents:	

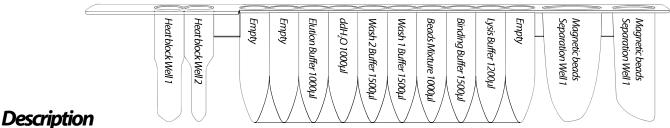
Cataron Mod 120031 Contents.
Pre-filled Cartridge Reagent
Pipette Tip
Cample Tube

Storage and Stability:

1. This kit should be stored at room temperature. 2. Proteinase K should be store at 4 °C upon arrival.

3. Shelf life 18 months.

Cartridge Contents:



MagCore® Genomic DNA Large Volume Whole Blood kit is designed to extract genomic DNA from 1.2ml fresh whole blood via MagCore® auto-extraction instrument. The kit contains all required reagent and labware for automated purification using magnetic-particle technology. Combinaton of easy program selection of code number 104 in MagCore® and using MagCore® Genomic DNA Large Volume Whole Blood Kit can extract high quality genomic DNA.

Applications

Using magnetic-particle technology to purify genomic DNA from 1.2ml fresh whole blood. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, restriction enzyme digestion, southern blotting... etc.

1. Add 1.1 ml PKS to rage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10 mg/ml) at 4° C.

Protocol

- 1. Pipet Proteinase K80 µl into the MagCore® Sample Tubes.
- 2. Add 1200 µl whole blood into the prepared Sample Tube.
- 3. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 4. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 5. Run Code.104 program at MagCore®.

Note: Beads or precipitate in eluent might be happened in viscous samples. This situation will not affect the yield, purity and downstream applications. Reduction of sample volume or simple centrifugation will remove the residual beads.

MagCore® Plasma DNA Extraction Kit (1.2 ml)

For extraction of free circulating DNA from human plasma or serum. Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 105

Cat.No.MPD1200 (HF16, Compact, HF48) Cat.No.MPD1200SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat.No. MPD 1200 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.
Cat.No. MPD1200SP Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pre-filled Cartridge Reagent Pipette Tip	100 pcs.
Pre-filled Cartridge Reagent Pipette Tip	100 pcs.
Pre-filled Cartridge Reagent	100 pcs.
Pre-filled Cartridge Reagent Pipette Tip	100 pcs. 100 pcs. 100 pcs.

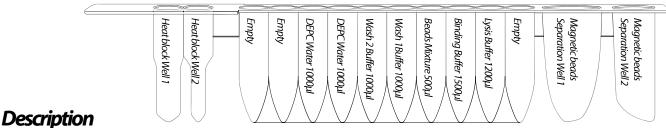
Storage and Stability:

1. This kit should be stored at room temperature.

2. Proteinase Kshould be store at 4 °Cupon arrival.

3. Shelf life 18 months.

Cartridge Contents:



MagCore® Plasma DNA Extraction Kit is designed for purification of DNA from 1.2 ml of serum, plasma, cell-free body fluids by using MagCore® auto-extraction instrument. With all the kit components of plastic consumables are DNase/RNase-Free pretreated, and individual processing track for each loaded samples, this system eliminates all possible cross contamination between samples. Built-in protocol with flexibility in sample source volumes, plasma DNA can be extracted using this kit in a fast and economical way.

Applications

The purified total nucleic acid is suitable for highly sensitive and quantitative PCR. MagCore® Plasma DNA Extraction Kit has been proven with various genomic analyses as downstream applications.

1. Add 1.1 ml PKS to rage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 4° C.

Protocol

- 1. Pipet 20 µl proteinase K(10mg/ml) into the MagCore® Sample Tubes.
- 2. Add 1200µl of serum, plasma, cell-free body fluids into the prepared Sample Tube.
- 3. After Proteinase K and Plasma mixing, stand for 10-20 min at room temperature, then centrifuge at 14,000 rpm for 10 min and transfer clear plasma to new tube.
- 4. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 5. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 6. Run Code.105 program at MagCore®.

MagCore® Genomic DNA Whole Blood Kit (For Genotyping)

Purify genomic DNA from human whole blood for genotyping. Applicable models: HF16, Compact, Super, HF16 Plus

Cartridge Code 106

Cat.No.MGB400-07//MGB400-08 (HF16, Compact)
Cat.No.MGB400-07SP//MGB400-08SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

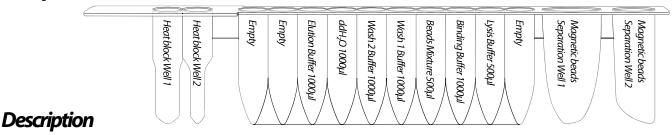
Cat.No. MGB400-07 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	36 sets.
Pipet Tip plus Holder SetSample Tube	36 pcs.
Flution Tube	36 ncs
Proteinase K(11mg)	2pcs.
PK Storage Buffer	2 pcs.
Cat.No. MGB400-07SP Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipette Tip	36 pcs.
Sample Tube	36 ncs
Elution Tube	36 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.

Cat.No. MGB400-08 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	
Elution Tube	100 pcs.
Proteinase K(11mg)	4 pcs.
PK Storage Buffer	
Cat.No. MGB400-08SP Contents:	
Pre-filled Cartridge Reagent	96 pcs
Pipette Tip	100 pcs.
Sample Tube	100 pcs
Elution Tube	100 pcs
Proteinase K(11mg)	
PK Storage Buffer	4 pcs

${\it Storage and Stability:}$

- This kit should be stored at room temperature.
- 2. Proteinase K should be store at 4 Cupon arrival.
- 3. Shelf life 18 months.

Cartridge Contents:



This kit is designed for genotyping application, you can get completed gDNA from eluent. We modify the reagent components and machine operation to make kit more suitable for genotyping. The pre-filled cartridge contains chaotropic salt and guanidine hydrochloride for cell lysis and protein degradation. The chaotropic salt helps the strong binding of DNA and cellulose coated magnetic beads. After the removal of contaminants, the high quality DNA is eluted by low salt elution buffer or water. Purified DNA of approximately 20-30 kb in length is suitable for genotyping or other applications.

Applications

Use magnetic-particle technology to purify genomic DNA from whole blood and buffy coat. The purified genomic DNA can be directly used for downstream application such as genotyping, PCR, real-time PCR, restriction enzyme digestion, southern blotting...etc.

1. Add 1.1 ml PKStorage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10 mg/ml) at 4° C.

Whole Blood Protocol

- 1. Take a new Sample Tube and add 20µl of Proteinase K (10mg/ml) to 200µl of equilibrated whole blood sample. (40µl Proteinase K to 400µl whole blood).
- Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 3. Put Elution Tube and Tip Plus Holder Set (HF16,Compact)/Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 4. Run Code.106 program at MagCore®.

Optional Step: RNA Degradation

If RNA-Free genomic DNA is required, perform these optional steps before adding Proteinase K.

- 1. Add 4µl RNase A(50mg/ml; not provided) into the sample lysate.
- 2. Incubate the sample at room temperature for 20min

Buffy Coat modify Protocol

RBCLysis Buffer:

150mMNH₄CI, 10mMKHCO₃, 0.1mMEDTA.

Buffy Coat Preparation by RBC Lysis

1. Take 600 ~ 700 µl whole blood into 2ml microcentrifuge tube.

Don't take more than 700µl whole blood sample; it will cause the leakage situation during process.

- Add 1ml RBC Lysis Buffer and mix the buffer and whole blood sample by upside down.
- 3. Shakethemixture, 100rpm 5mins.
- 4. Centrifuge the mixture 13,000rpm 1 min.
- 5. Discard supernatant.
- 6. Repeat step 2 ~ step 5 to wash the sample again.
- 7. Add 400µl RBC Lysis Buffer and 40µl proteinase K to resuspend the pellet and transfer into MagCore® Sample Tube.
- 8. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 9. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10) 10.Run Code.106 program at MagCore®.

Buffy Coat Preparation by Centrifugation

- 1. Take 2~5ml whole blood sample and centrifuge at 1,500rpm 10mins.
- 2. Use plastic drop to take white buffy coat layer in the middle of whole blood sample.
- 3. Move the buffy coat into new microcentrifuge tube.
- 4. Take 80 ~ 100µl buffy coat sample into MagCore® Sample Tube and add RBC Lysis Buffer or PBS until 400µl then add 40µl of proteinase K.
- 5. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 6. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 7. Run Code.106 program at MagCore®.

Note: We suggest to select 150 ~200µl elution buffer, it can get better elution efficiency in both of these methods. Normally the concentration is higher than 150ng/µl under such elution volume.

MagCore® Cultured Cells DNA Kit

For extraction of genomic DNA from cultured cells and amniotic fluid.

Applicable models: HF16, Compact, Super, HF16 Plus

Cartridge Code 110

Cat.No.MCC-01 // MCC-02 (HF16, Compact)
Cat.No.MCC-01SP // MCC-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

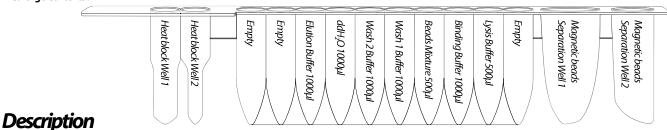
Cat.No. MCC-01 Contents:	
Pre-filled Cartridge Reagent	
Pipet Tip plus Holder Set	36 sets.
Sample Tube	36 pcs.
Elution Tube	36 pcs.
Proteinase K(11mg)	1 pcs.
PK Storage Buffer	1 pcs.
Cat.No. MCC-01SP Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pre-filled Cartridge Reagent Pipette Tip	36 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube	36 pcs. 36 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube Elution Tube	36 pcs. 36 pcs. 36 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube	36 pcs. 36 pcs. 36 pcs. 36 pcs. 1 pcs.

Cat.No. MCC-02 Contents:	
Pre-filled Cartridge Reagent	96 pcs
Pipet Tip plus Holder Set	100 sets
Sample Tube	100 pcs
Elution Tube	100 pcs
Proteinase K(11mg)	2 pcs
PK Storage Buffer	2 pcs
Cat.No. MCC-02SP Contents:	
Pre-filled Cartridge Reagent	06
Pre-Illied Cartriage neagerit	96 pcs.
Pipette Tip	100 pcs.
	100 pcs.
Pipette TipSample TubeElution Tube	100 pcs 100 pcs 100 pcs
Pipette TipSample Tube	100 pcs 100 pcs 100 pcs

${\it Storage and Stability:}$

- 1. This kit should be stored at room temperature.
- 2. Proteinase K should be store at 4 °Cupon arrival.
- 3. Shelflife 18 months.

Cartrige Contents:



MagCore® Cultured cells DNA Kit is designed to extract genomic DNA from up to 5x10⁶ cultured cells via MagCore® auto-extraction instrument. The kit contains all required reagent and labware for automated purification using magnetic-particle technology. Easy select program code number 110 in MagCore® and combine using MagCore® Cultured cells DNA Kit can extract high quality genomic DNA.

Applications

Using magnetic-particle technology to purify genomic DNA from 5x10⁶ cultured cells. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, restriction enzyme digestion, southern blotting... etc.

- $1. \ \textit{Add} \ 1.1 \textit{ml} \ \textit{PKS} to \textit{rage} \ \textit{Buffer} \ to \ \textit{the Proteinase} \ \textit{K} \ \textit{tube} \ \textit{and} \ \textit{mix} \ \textit{by vortexing}. \ \textit{Store} \ \textit{prepared} \ \textit{Proteinase} \ \textit{K} \ (10 \textit{mg/ml}) \ \textit{at} \ 4^{\circ} C.$
- 2. Ensure PBS buffer have been prepared for resuspend cell pellet.

Protocol

Sample Preparation

A. Cells grown in suspension

Cells grown in suspension (up to 5×10^6 cells). Determine the number of cells. Centrifuge the appropriate number of cells for 5×10^6 cells). Determine the number of cells. Centrifuge the appropriate number of cells for 5×10^6 cells). Remove the supernatant completely and discard, Continue with MagCore® Operation step 1×10^6 cells grown in a 1.5×10^6 cells for 1.5×10^6 cells.

B. Cells grown in a monolayer

Cells grown in a monolayer (up to 5×10^6 cells). Cells grown in a monolayer can be detached from the culture flask by either trypsinization or using a cell scraper.

To trypsinize cells:

Determine the number of cells. Aspirate the medium and wash cells with PBS (not provided). Aspirate the PBS, and add 0.10–0.25% trypsin. After cells have detached from the dish or flask, collect them in medium, and transfer the appropriate number of cells(up to 5 \times 10 $^{\circ}$ cells) to a 1.5 ml microcentrifuge tube (not provided). Centrifuge for 5 min. at 300 x g. Remove the supernatant completely and discard, taking care not to disturb the cell pellet. Continue with MagCore® Operation step 1.

Using a cell scraper:

Detach cells from the dish or flask. Transfer the appropriate number of cells (up to 5×10^6 cells) to a 1.5 ml microcentrifuge tube and centrifuge for 5 min. at $300 \times g$. Remove the supernatant completely and discard, taking care not to disturb the cell pellet. Continue with MagCore® Operation step 1.

MagCore® Operation

- 1. Resuspend cell pellet with PBS Buffer to a final volume of 200 µl.
- 2. Transfer cell mixture 200 µl and add 20 µl Proteinase Kinto the MagCore® Sample Tubes.
- 3. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 4. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 5. Run Code.110 program at MagCore®.

Amniotic Fluid Protocol

Sample preparation

- Harvest cells from 10~15 ml amniotic fluid of 16~18 weeks by centrifugation for 10 minutes at 3000 rpm and discard the supernatant.
- Add 200µl GT Buffer (not provided) to the tube and resuspend the cell pellet, then transfer mixture to new microcentrifuge tube.
- 3. Add 5~10µl ProteinaseK (10mg/ml) to the sample. Vortex for 5 seconds to mix sample.
- Incubate at 56°C for 10 minutes until the sample lysate is clear. During incubation, invert the tube every 3 minutes.
- 5. Spin down the sample and apply for MagCore®.

MagCore® Viral Nucleic Acid Extraction Kit

For extraction of viral DNA/RNA from serum, plasma and cell-free body fluids.

Applicable models: HF16, Compact, Super, HF16 Plus

Cartridge Code 201

Cat.No. MVN400-01 Contents:

Cat.No.MVN400-01 // MVN400-02 (HF16, Compact)
Cat.No.MVN400-01SP // MVN400-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Pre-filled Cartridge Reagent	36 pcs
Pipet Tip plus Holder Set	36 sets
Sample Tube	36 pcs.
Elution Tube	36 pcs
Carrier RNA(1mg)	1 pcs
RNase Free Water	1 pcs
Proteinase K(11mg)	1 pcs
PK Storage Buffer	
Cat.No. MVN400-01SP Contents:	
Pre-filled Cartridge Reagent	36 pcs
Pipette Tip	36 pcs
Sample Tube	36 pcs
Elution Tube	36 pcs
Carrier RNA (1 mg)	1 pcs
RNase Free Water	
Proteinase K(11mg)	1 pcs
PK Storage Buffer	1 pcs

Cat.No. MVN400-02 Contents:	
Pre-filled Cartridae Reagent	

Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Carrier RNA(1mg)	1 pcs.
RNase Free Water	1 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.

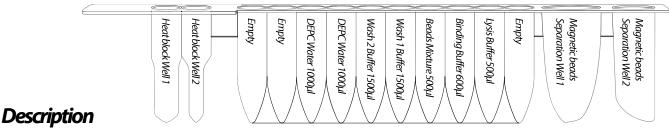
Cat.No. MVN400-02SP Contents:

Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Carrier RNA(1mg)	1 pcs.
RNase Free Water	1 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- $2. \textit{Carrier RNA should be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eKshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eXshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eXshould be stored at -20 Cwhen mixing with RNase Free Water/Protein as eXshould be stored at -20 Cwhen mixing with RNase Free Water/Protein at -20 Cwhen Mixing with RNAS With R$
- 3. Shelf life 18 months.

Cartridge Contents:



MagCore® Viral Nucleic Acid Extraction kit is designed to extract viral DNA and RNA via MagCore® auto-extraction instrument. With all the kit components of plastic consumables are DNase/RNase-Free pretreated, and individual processing track for each loaded samples, this system eliminates all possible cross contamination between samples. Built-in protocol with flexibility in sample source volumes, both DNA and RNA virus can be extracted using the same kit in a fast and economical way.

Applications

Using magnetic-particle technology to purify viral nucleic acid from serum, plasma, or cell-free body fluids. The purified viral nucleic acid is suitable for highly sensitive and quantitative PCR.

- 1. Add 1.0 ml RNase Free Water to the Carrier RNA tube and mix by vortexing. Store prepared Carrier RNA (1 mg/ml) at -20°C. (Do not freeze—thaw the carrier RNA more than 3 times.)
- 2. Add 1.1ml PKStorage Buffer to the Proteinase Ktube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 4°C.

Protocol

- 1. Pipet 10 µl Carrier RNA (1mg/ml) and 20 µl proteinase K (10mg/ml) into the MagCore® Sample Tubes.
- 2. Add 200 µl or 400 µl of serum, plasma, or cell-free body fluids into the prepared Sample Tube.
- 3. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 4. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 5. Run Code.201 program at MagCore®.

Urine Protocol

Sample preparation

- 1. Harvest cells from up to 3.5 ml urine by centrifugation for 10 minutes at 3000 rpm and concentrate the sample to 400 ul
- 2. Add 5~10 ul ProteinaseK (10mg/ml) to the sample. Vortex for 5 seconds to mix sample.
- 3. Incubate at 56°C for 10 minutes until the sample lysate is clear. During incubation, invert the tube every 3 minutes.
- 4. Pipet 10 µl Carrier RNA (1mg/ml) into the MagCore® Sample Tubes.
- 6. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 7. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 8. Run Code.201 program at MagCore®.

MagCore® Viral Nucleic Acid Extraction Kit

For extraction of viral DNA/RNA from serum, plasma and cell-free body fluids

Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 202

Cat.No.MVN400-03 // MVN400-04 (HF16, Compact, HF48) Cat.No.MVN400-03SP // MVN400-04SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat.No. MVN400-03 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	36 sets.
Sample Tube	36 pcs.
Pipet Tip plus Holder Set	36 pcs.
Carrier RNA(1mg)	1 pcs.
RNase Free Water	
Proteinase K(11mg)	
PK Storage Buffer	
C . N. 18/8/400 03/50 C	
Cat.No. MVN400-03SP Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pre-filled Cartridge Reagent	36 pcs.
Pre-filled Cartridge Reagent	36 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube Elution Tube	36 pcs. 36 pcs. 36 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube Elution Tube	36 pcs. 36 pcs. 36 pcs.
Pre-filled Cartridge Reagent	36 pcs. 36 pcs. 1 pcs. 1 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube Elution Tube	36 pcs. 36 pcs. 36 pcs. 1 pcs.

Cat.No. MVN400-04 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Carrier RNA(1mg)	1 pcs.
RNase Free Water	1 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.
Cat.No. MVN400-04SP Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pre-filled Cartridge Reagent	96 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube	100 pcs. 100 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube Elution Tube	100 pcs. 100 pcs. 100 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube Elution Tube Carrier RNA(1mg)	100 pcs. 100 pcs. 100 pcs. 1 pcs.
Pre-filled Cartridge Reagent	100 pcs. 100 pcs. 100 pcs. 1 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube Elution Tube	100 pcs100 pcs100 pcs100 pcs1 pcs1 pcs1 pcs1 pcs

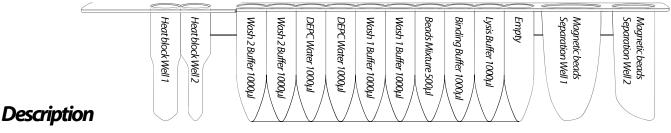
Storage and Stability:

1. This kit should be stored at room temperature.

2. Carrier RNA should be stored at -20°C when mixing with RNase Free Water/Proteinase K should be store at 4°C upon arrival.

3. Shelf life 18 months.

Cartridge Contents:



MagCore® Viral Nucleic Acid Extraction kit is designed to extract viral DNA and RNA via MagCore® auto-extraction instrument. With all the kit components of plastic consumables are DNase/RNase-Free pretreated, and individual processing track for each loaded samples, this system eliminates all possible cross contamination between samples. Built-in protocol with flexibility in sample source volumes, both DNA and RNA virus can be extracted using the same kit in a fast and economical way.

Applications

Using magnetic-particle technology to purify viral nucleic acid from serum, plasma, or cell-free body fluids. The purified viral nucleic acid is suitable for highly sensitive and quantitative PCR.

- 1. Add 1.0 ml RNase Free Water to the Carrier RNA tube and mix by vortexing. Store prepared Carrier RNA (1 mg/ml) at -20°C. (Do not freeze—thaw the carrier RNA more than 3 times.)
- 2. Add 1.1ml PKStorage Buffer to the Proteinase Ktube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 4°C.

Protocol

- 1. Pipet 10 µl Carrier RNA (1 mg/ml) and 20 µl proteinase K (10 mg/ml) into the MagCore® Sample Tubes.
- 2. Add 200 µl or 400 µl of serum, plasma, or cell-free body fluids into the prepared Sample Tube.
- 3. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 4. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 5. Run Code.202 program at MagCore®.

Urine Protocol

Sample preparation

- 1. Harvest cells from up to 3.5 ml urine by centrifugation for 10 minutes at 3000 rpm and concentrate the sample to 400 ul
- 2. Add 5~10 ul ProteinaseK (10mg/ml) to the sample. Vortex for 5 seconds to mix sample.
- 3. Incubate at 56°C for 10 minutes until the sample lysate is clear. During incubation, invert the tube every 3 minutes.
- 4. Pipet 10 µl Carrier RNA (1mg/ml) into the MagCore® Sample Tubes.
- 6. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 7. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 8. Run Code 202 program at MagCore®.

MagCore® Viral Nucleic Acid Large Volume Extraction Kit (2.4 ml)

For extraction of viral DNA/RNA from large volume (2.4 ml) serum, plasma and cell-free body fluids. Applicable models: HF16, Compact

Cartridge Code 210

Cat.No.MVN2400 (HF16, Compact)

Kit Contents

Check that the following parts are included in addition to the main unit:

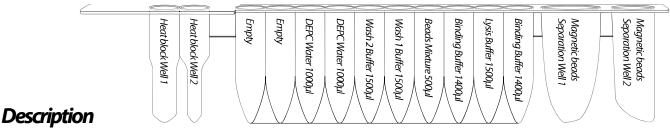
Cat.No. MVN2400 Contents:

Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
5ml Sample Tube	
Elution Tube	
Carrier RNA(1mg)	2 pcs.
RNase Free Water	2 pcs.
Proteinase K(11mg)	4pcs.
PK Storage Buffer	4 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Carrier RNA should be stored at -20°C when mixing with RNase Free Water.
- 3. Proteinase Kshould be store at 4 °C upon arrival.
- 4. Shelf life 18 months.

Cartridge Contents:



MagCore® Viral Nucleic Acid Large Volume Extraction Kit(2.4ml) is designed for purification of DNA and RNA from 2.4 ml serum, plasma, cell-free body fluids by MagCore® auto-extraction instrument. With all the kit components of plastic consumables are DNase/RNase-Free pretreated, and individual processing track for each loaded samples, this system eliminates all possible cross contamination between samples. Built-in protocol with flexibility in sample source volumes, both DNA and RNA virus can be extracted using the same kit in a fast and economical way.

Applications

Using magnetic-particle technology to purify viral nucleic acid from serum, plasma, or cell-free body fluids. The purified viral nucleic acid is suitable for highly sensitive and quantitative PCR.

- 1. Add 1.0 ml RNase Free Water to the Carrier RNA tube and mix by vortexing. Store prepared Carrier RNA (1 mg/ml) at -20°C. (Do not freeze—thaw the carrier RNA more than 3 times.)
- 2. Add 1.1ml PKStorage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 4°C.

Protocol

- 1. Pipet 20 µl Carrier RNA (1mg/ml) and 40 µl proteinase K(10mg/ml) into the 5ml Sample Tubes (provided).
- 2. Add 2400 µl of serum, plasma, or cell-free body fluids into the prepared 5ml Sample Tube.
- 3. Put the prepared 5ml Sample Tube into the correct well of T-Rack. (see page 3-10)
- 4. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 5. Run Code.210 program at MagCore®.

MagCore® Viral Nucleic Acid Large Volume Extraction Kit (1.2 ml)

For extraction of viral DNA/RNA from large volume (1.2 ml) serum, plasma and cell-free body fluids. Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 211

Cat.No.MVN1200 (HF16, Compact, HF48) Cat.No.MVN1200SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

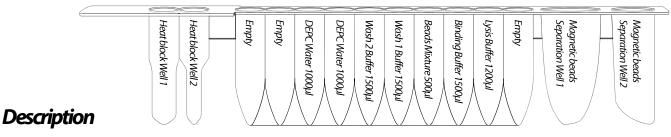
Cat.No. MVN1200 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Carrier RNA(1mg)	1 pcs.
RNase Free Water	1 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.
Cat.No. MVN1200SP Contents:	
0 01 16 0	0.0

Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	
Elution Tube	
Carrier RNA(1mg)	
RNase Free Water	1 pcs.
Proteinase K(11mg)	
PK Storage Buffer	

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Carrier RNA should be stored at -20°C when mixing with RNase Free Water/Proteinase K should be store at 4°C upon arrival.

Cartridge Contents:



MagCore® Viral Nucleic Acid Large Volume Extraction Kit(1.2ml) is designed for purification of DNA and RNA from 1.2 ml serum, plasma, cell-free body fluids by MagCore® auto-extraction instrument. With all the kit components of plastic consumables are DNase/RNase-Free pretreated, and individual processing track for each loaded samples, this system eliminates all possible cross contamination between samples. Built-in protocol with flexibility in sample source volumes, both DNA and RNA virus can be extracted using the same kit in a fast and economical way.

Applications

Using magnetic-particle technology to purify viral nucleic acid from serum, plasma, or cell-free body fluids. The purified viral nucleic acid is suitable for highly sensitive and quantitative PCR.

- 1. Add 1.0 ml RNase Free Water to the Carrier RNA tube and mix by vortexing. Store prepared Carrier RNA (1mg/ml) at -20°C. (Do not freeze—thaw the carrier RNA more than 3 times.)
- 2. Add 1.1ml PK Storage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 4°C.

Protocol

- 1. Pipet 10 µl Carrier RNA(1mg/ml) and 20 µl proteinase K(10mg/ml) into the MagCore® Sample Tubes(provided).
- 2. Add 1200 µl of serum, plasma, or cell-free body fluids into the prepared Sample Tube.
- 3. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 4. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 5. Run Code.211 program at MagCore®.

MagCore® Genomic DNA Plant Kit

For extraction of genomic DNA from plant and fungal tissues. Applicable models: HF16, Compact, Super, HF16 Plus

Cartridge Code 301

Cat.No.MGP-01 // MGP-02 (HF16, Compact)
Cat.No.MGP-01SP // MGP-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

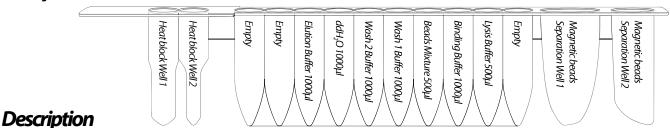
Cat.No. MGP-01 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	36 sets.
Pipet Tip plus Holder SetSample Tube	36 pcs.
Elution Tube	36 pcs.
Filter Column Set	36 pcs.
RNase A(10mg/ml, 275µl)	1 pcs.
GP1 Buffer(25ml)	1 pcs.
GP2 Buffer(6ml)	1 pcs.
Cat.No. MGP-01SP Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipette TipSample TubeElution Tube	36 pcs.
Sample Tube	36 pcs.
Elution Tube	36 pcs.
Filter Column Set	36 pcs.
RNase A(10mg/ml, 275µl)	1 pcs.
RNase A(10mg/ml, 275µl) GP1 Buffer(25ml)	1 pcs.
GP2 Buffer(6ml)	

Cat.No. MGP-02 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	
Filter Column Set	100 pcs.
RNase A(10mg/ml, 550µl)	1 pcs.
GP1 Buffer(50ml)	1 pcs.
GP2 Buffer(15ml)	1 pcs.
Cat.No. MGP-02SP Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
Filter Column Set	100 pcs.
RNase A(10mg/ml, 550µl)	1 pcs.
GP1 Buffer(50ml)	1 pcs.
GP2 Buffer(15ml)	1 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. For long term storage, RNase A should be stored at 4°C.
- 3. Shelf life 18 months.

Cartridge Contents:



MagCore® Genomic DNA Plant Kit is designed for purification of DNA from plant tissues and cells by using MagCore® auto-extraction instrument. The provided Filter Column Set can filtrate hard tissue sample and prevent tissue residues to obstruct pipette tip during the process of MagCore®. The kit contains all required reagent and labware for automated purification using magnetic-particle technology. Easy select program code number 301 in MagCore® and combine using kit can perform high quality genomic DNA.

Applications

Using magnetic-particle technology to purify genomic DNA up to 100mg of fresh tissue. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, PCR, southern blotting, RADP/AFLP... etc.

The kit procedures are optimized for a maximum of 100 mg of wet-weight or 20 mg of dried starting material.

Exceeding the recommended maximum amount of starting material will result in inefficient lysis, resulting in low yield and purity.

Tissue Dissociation Protocol

- 1. Cut 50 mg (up to 100 mg) of fresh or frozen plant tissue or 5 mg (up to 20 mg) of dried sample.
- 2. Grind the sample with mortar and pestle under liquid nitrogen to a fine powder. For some plant samples, liquid nitrogen may be unnecessary for homogenization.
- 3. Transfer it into a microcentrifuge tube (not provided).

Lysis Step:

- 1. Add 400µl GP1 Buffer and 5µl RNase A (10mg/ml) into the microcentrifuge tube and mix by vortexing. Do not mix GP1 Buffer with RNase A before use.
- 2. Incubate at 65°C for 10 minutes. During incubation, invert the tube every 5 minutes.
- 3. Add 100µl GP2 Buffer and mix by vortexing.
- Incubate on ice for 3 minutes. Place a Filter Column into a 2 ml Collection Tube and apply the entire lysate from previous step to the Filter Column.
- 5. Centrifuge for 3 minutes at full speed (13,000 rpm).
- 6. Discard the Filter Column and carefully transfer clarified lysate (about 400µl) in the collection Tube to the MagCore®Sample Tubes.
- 7. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 8. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 9. Run Code.301 program at MagCore®.

Fungal Tissue Protocol

Sample preparation

- 1. Collect the fungal tissue up to 20 mg.
- 2. Grind the sample with mortar and pestle under liquid nitrogen to a fine powder.
- 3. Transfer it into a microcentrifuge tube (not provided). Do not allow the sample to thaw.

Cell Lysis

- 1. Add 400µl GP1 Buffer and 5µl RNase A (10mg/ml) into the microcentrifuge tube and mix by vortexing. Do not mix GP1 Buffer with RNase A before use.
- 2. Incubate at 65°C for 10 minutes. During incubation, invert the tube every 5 minutes.
- 3. Add 100µl GP2 Buffer and mix by vortexing.
- 4. Incubate on ice for 3 minutes. Place a Filter Column into a 2 ml Collection Tube and apply the entire lysate from previous step to the Filter Column.
- 5. Centrifuge for 3 minutes at full speed (13,000 rpm).
- 6. Discard the Filter Column and carefully transfer clarified lysate(about 400µl) in the collection Tube to the MagCore® Sample Tubes.
- 7. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 8. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 9. Run Code.301 program at MagCore®.

MagCore® Genomic DNA Tissue Kit

For extraction of genomic DNA from a variety to animal tissues, paraffin-embedded tissue, swab, blood stain, forensic specimens and cultured yeast.

Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 401

Cat.No.MGT-01 // MGT-02 (HF16, Compact, HF48) Cat.No.MGT-01SP // MGT-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

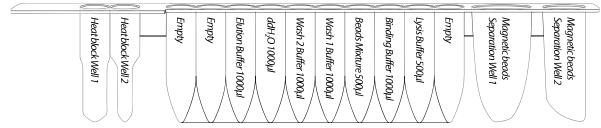
Cat.No. MGT-01 Contents:	
Pre-filled Cartridge Reagent	36 pcs
Pipet Tip plus Holder Set	36 sets.
Sample Tube	36 pcs.
Elution Tube	36 pcs
GT Buffer(30ml)	
Filter Column Set	
Proteinase K(11mg)	1 pcs
PK Storage Buffer	
Cat.No. MGT-01SP Contents:	
Pre-filled Cartridge Reagent	36 pcs
Pipette Tip	36 pcs
Sample TubeElution Tube	36 pcs.
Elution Tube	36 pcs
GT Buffer(30ml)	1 pcs.
GT Buffer(30ml) Filter Column Set	1 pcs. 36 pcs
GT Buffer(30ml)	1 pcs. 36 pcs 1 pcs

Cat.No. MGT-02 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Pipet Tip plus Holder SetSample Tube	100 pcs.
Elution Tube	100 pcs.
GT Buffer(30ml)	2 pcs.
Filter Column Set	
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.
Cat.No. MGT-02SP Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
GT Buffer(30ml)	2 pcs.
Filter Column Set	100 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Proteinase Kshould be store at 4 Cupon arrival.
- 3. Shelf life 18 months.

Cartridge Contents:



Description

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 cartridge which contains proteinase K and a chaotropic salt to lyse cells and degrade protein. DNA will bind to cellulose coated magnetic beads. After washing off the contaminants, the purified DNA is eluted by low salt elution buffer. Purified DNA of approximately 20-30 kb in length is suitable for PCR or other enzymatic reactions.

Applications

Using magnetic-particle technology to purify genomic DNA from animal tissues, paraffin embedded tissue, swab and blood stain. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, restriction enzyme digestion, southern blotting... etc.

1. Add 1.1ml PKStorage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 4° C.

For Paraffin-Embedded Tissue

Sample Preparation:

Additional Requirements: Xylene(or Substitutes), Ethanol (96-100%), Microcentrifuge Tube.

Suggested Xylene Substitute: A5597 (Sigma), Neo-Clear (Merck), CitriSolv (Fisher).

1. Slice small section (5-10µm) of paraffin-embedded tissue and transfer to a microcentrifuge tube.

Discard the first 2-3 sections, if the surface of paraffin sample has been exposed to air.

- 2. Add 1mlxylene(or substitute) to the tube and vortex vigorously for 10sec. Then incubate at 60℃ for 10min.
- 3. Centrifuge at full speed for 3min at room temperature.
- 4. Remove the supernatant carefully by pipetting, then add 1ml ethanol (96-100%) to the pellet and mix by vortexing for 10sec.
- 5. Centrifuge at full speed for 5min at room temperature.
- 6. Remove the supernatant carefully by pipetting, then add again of 1ml ethanol (96-100%) to the pellet and mix by vortexing for 10sec to wash again.
- 7. Centrifuge at full speed for 5min.
- 8. Remove residual ethanol with a fine pipette tip, then open the tube and incubate at 55°C for 5min until all residual ethanol has been evaporated.
- 9. Add 400µl GT Buffer and 20µl Proteinase K(10mg/ml) to the tube and mix by vortexing.
- 10. Incubate at 55°C for 90min until the sample has been completely lysed.
- 11. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5min to get clear tissue solution in the Collection Tube.
- 12. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 13. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 14. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 15. Run Code.401 program at MagCore®.

For Swab Sample

Additional Requirements: PBS, Microcentrifuge Tube.

- 1. Separate the swab cotton form the stick. Place the swab into a 2ml microcentrifuge tube, add 500µl or more of GT Buffer and 20µl Proteinase K(10mg/ml).
- 2. Incubate the sample lyaste at 55°C for 30min.

For Buccal Swab sample, donor should not ingest anything for at least 30min prior to sample collection.

- 3. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5min to get clear tissue solution in the Collection Tube.
- 4. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 5. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 6. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 7. Run Code.401 program at MagCore®.

For Solid Animal Tissue

Additional Requirements: Microcentrifuge Tube.

- 1. Cut the solid tissue to small pieces (up to 30 mg) and put into a microcentrifuge tube.
- 2. Add 400µl GT Buffer and 20µl Proteinase K(10mg/ml) to the tube and mix by vortexing.
- 3. Incubate at 55℃ for 90min until the sample has been completely lysed.
- 4. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5min to get clear tissue solution in the Collection Tube.
- 5. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 6. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 7. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 8. Run Code.401 program at MagCore®.

For Stool Sample

Additional Requirements: Microcentrifuge Tube.

- Weight 180-200mg stool in a 2ml microcentrifuge tube and place on ice. If the sample is liquid, pipet 200µl into microcentrifuge tube.
 Cut the end of pipet tip to make pipetting easier. If the sample is frozen, use a scalpel or spatula to scrape bits of stool into microcentrifuge tube on ice.
 - Recommend: Add 1 ml TE buffer (10 mM Tris-Cl; 1 mM EDTA, pH 8). Resuspend the sample by vigorous vortexing for 30s. Centrifuge the sample mixture for 15 min at 4,000 x g and discard supernatant.
- 2. Add 1.5ml GT Buffer to sample. Vortex continuously for 1 min or until the stool sample is thoroughly homogenized. This is very important to vortex sample thoroughly to ensure maximum DNA concentration in the final elutes.
- 3. Incubate the suspension for 5 min at 70°C. This step can increase DNA recovery 3-5 fold, if the sample target is Gram-positive bacteria, please increase to 95°C for cells lysis.
- 4. Vortex for 15 seconds and centrifuge sample at full speed (13,000 rpm) for 1 min to pellet stool particles.
- 5. Pipet 400µl of the supernatant into a new 1.5ml microcentrifuge tube.
- 6. Add 20 μ I Proteinase K (10mg/ml) to the sample mixture and vortex to mix. Incubate at 60°C for 2~3 hours to lyse the sample.
- 7. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5min to get clear tissue solution in the Collection Tube.
- 8. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 9. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 10.Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 11.Run Code.401 program at MagCore®.

For Feed-soil Sample

- 1. Apply 30~40mg feed or soil samples into a 1.5 ml microcentrifuge tube.
- 2. Add 20µl (10mg/ml) Proteinase Kand followed by adding 500µl of GT Buffer. Vortex gently until the powder suspend in GT buffer.
- Incubate the mixture at 56°C for 15mins. Invert the tube every 2~3mins during incubation.
 Typically 15mins incubation can lysis more than 90% cells. Extend incubation time to 20mins can increase 10% of yield.
- 4. Centrifuge the mixture for 3 min at full speed.
- 5. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5min to get clear tissue solution in the Collection Tube.
- $6. \ \textit{Pipette} \ 400 \mu lof \textit{clear tissue solution to the MagCore} ^{\circ} Sample \ \textit{Tube}.$
- 7. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 8. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 9. Run Code.401 program at MagCore®.

For Dried Blood Spot

- 1. Cut 3mm diameter punches from a dried blood spot with a single-hole paper punch. Place up to 3 blood card into a 1.5ml microcentrifuge tube.
- 2. Add 400~500µl GT buffer into the microcentrifuge tube and continue to homogenize the sample tissue with grinding.
- 3. Add 20µl Proteinase K (10mg/ml) to the sample mixture and vortex to mix. Incubate at 60°C for 1 hour to lyse the sample.
- 4. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5min to get clear tissue solution in the Collection Tube.
- 5. Pipette 400ul of clear tissue solution to the MagCore® Sample Tube.
- 6. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 7. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 8. Run Code.401 program at MagCore®.

Optional Step: RNA Degradation

If RNA-Free genomic DNA is required, perform these optional steps before adding Proteinase K.

- 1. Add 4µl RNase A(not provided, 50mg/ml) into the sample lysate.
- 2. Incubate the sample at room temperature for 20min.

Cigarette Butts Protocol

Sample preparation

1. Cut 1 cm² piece of outer paper from the end of the cigarette or filter. Cut this piece into 6 smaller pieces. Transfer the pieces to a 1.5 ml microcentrifuge tube.

Cell Lysis

- 1. Add 500µl GT buffer and 20µl Proteinase K, close the lid, and mix for 10 sec. Incubate at 60℃ for 1 hour to lyse the sample.
- 2. Briefly centrifuge the tube to remove drops from the inside of the lid.
- 3. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 2. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 3. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 4. Run Code.401 program at MagCore®.

Hair roots Protocol

Sample preparation

1. Cut the hair roots into 0.5–1 cm pieces, and transfer them to the 1.5 ml microcentrifuge tube.

- 1. Add 500µl GT buffer and 20µl Proteinase K, close the lid, and mix for 10 sec. Incubate at 60°C for 1 hour to lyse the sample.
- 2. Briefly centrifuge the tube to remove drops from the inside of the lid.
- 3. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 4. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 5. Put Elution Tube and Tip Plus Holder Set (HF16,Compact)/Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 6. Run Code.401 program at MagCore®.

Chewing Gum Protocol

Sample preparation

1. Cut up to 30 mg of chewing gum into small pieces and transfer them to a 1.5 ml microcentrifuge tube.

Cell Lysis

- 1. Add 500µl GT buffer and 20µl Proteinase K, close the lid, and mix for 10 sec. Incubate at 60℃ for 1~3 hours to lyse the sample.
- 2. Briefly centrifuge the tube to remove drops from the inside of the lid.
- 3. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 4. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 5. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 6. Run Code.401 program at MagCore®.

Betel Nut Residue Protocol

Sample preparation

1. Cut up to 30 mg of betel nut residue into small pieces and transfer them to a 1.5 ml microcentrifuge tube.

- 1. Add 500µl GT buffer and 20µl Proteinase K, close the lid, and mix for 10 sec. Incubate at 60°C for 1~3 hours to lyse the sample.
- 2. Briefly centrifuge the tube to remove drops from the inside of the lid.
- 3. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 4. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 5. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 6. Run Code.401 program at MagCore®.

Saliva Protocol

Sample preparation

- 1. For saliva sample, donor should not ingest anything for at least 30min prior to sample collection.
- 2. Prepare PBS Buffer and 15 ml tube.

- 1. Apply the 1 ml saliva and add 4 ml PBS buffer (not provided).
- 2. Centrifuge at 1800 x g for 5 min, and then carefully discard the supernatant.
- 3. Resuspend the pellet in 400µl GT buffer.
- 4. Add 20µl Proteinase K, close the lid, and mix for 10 sec. Incubate at 70°C for 10 minutes to lyse the sample.
- 5. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5min to get clear tissue solution in the Collection Tube.
- 6. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 7. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 8. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 9. Run Code.401 program at MagCore®.

Cultured Yeast Protocol

- Additional requirements: Sorbitol Buffer, Lyticase or Zymolase, Microcentrifuge tube.
- Preparation of Sorbitol Buffer: 1.2 M sorbitol, 10mM CaCl2, 0.1 M Tris-Cl pH 7.5. Sterilize by filtration and store at 4℃

Sample preparation

- 1. Harvest 3ml yeast cells (up to $5x10^7$ cells) by centrifugation at $5000 \times g$ for 10 minutes. Discard the supernatant and carefully remove any remaining media by aspiration.
- 2. Resuspend the cell pellet in 600µl sorbitol buffer (not provided).

- Add 200U Lyticase or Zymolase (not provided). Incubate at 30°C for 30 minutes. Centrifuge the mixture for 10 min at 2,000 x g to harvest Spheroplast.
- 2. Remove the supernatant and add 400µl of GT Buffer to the tube and vortex or pipette to resuspend the cell pellet.
- 3. Incubate at 55°C for 90min until the sample has been completely lysed.
- 4. If there are any insoluble residues in the tube, transfer the supernatant to Filter Column and centrifuge at full speed for 5 min to get clear tissue solution in the collection tube.
- 5. Pipette 400µl of clear tissue solution to the MagCore® Sample Tube.
- 6. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 7. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 8. Run Code.401 program at MagCore®.

MagCore®Genomic DNA FFPE One-Step Kit

For extraction of total DNA from formalin-fixed paraffin-embedded (FFPE) tissue by using MagCore® System. Applicable models: HF16, Compact, Super, HF16 Plus

36 pcs.

Cartridge Code 405

Cat. No. MGF-01 // MGF-03 (HF16, Compact)
Cat. No. MGF-01SP // MGF-03SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat.No. MGF-01 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	72sets.
Pipet Tip plus Holder Set Elution Tube	36 pcs.
Sula Oil (25 ml)	1 pcs.
Proteinase K(11mg)	1 pcs.
PK Storage Buffer	1 pcs.
Thermostable cap	36 pcs.
Cat.No. MGF-01SP Contents:	
Pre-filled Cartridge Reagent	
Pipette Tip	36pcs
Tip and Holder Set	36set
Elution Tube	36 pcs.
Sula Oil (25 ml)	1 pcs.
Proteinase K(11mg)	1 pcs.
PK Storage Buffer	1 pcs.

Cat.No. MGF-03 Contents:	
Pre-filled Cartridge Reagent	72 pcs
Pipet Tip plus Holder Set	150 sets
Elution Tube	75 pcs
Sula Oil (50ml)	1 pcs
Proteinase K(11mg)	2pcs
PK Storage Buffer	2 pcs
Thermostable cap	75 pcs
Cat.No. MGF-03SP Contents:	
Pre-filled Cartridge Reagent	72 pcs
Pipette Tip	75pcs
Tip and Holder Set	75set
Elution Tube	75 pcs
Sula Oil (50 ml)	1 pcs
Proteinase K(11mg)	2pcs
PK Storage Buffer	

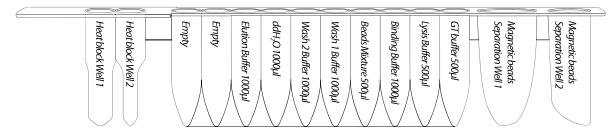
.75 pcs.

Storage and Stability:vvv

Thermostable cap

- 1. This kit should be stored at room temperature.
- 2. Proteinase K should be store at 4 °C upon arrival.
- 3. Shelf life 18 months.

Cartridge Contents:



Thermostable cap.

Description

MagCore® Genomic DNA FFPE One-Step Kit is designed for purification of total DNA from FFPE tissues by using MagCore® instruments. It features the method, One-Step Heating, to melt paraffin and lyse tissue samples at the same time without harmful reagents involved such as xylene. Two protocols are designed and optimized for different sizes of tissues: 2 hrs for small samples/16 hrs for large samples (Please see "important notes"). DNA will be extracted fast and economically based on the cellulose coated magnetic bead technology.

Applications

Use magnetic-particle technology to purify genomic DNA from FFPE tissue. The purified genomic DNA can be directly used for downstream application such as PCR, real-time PCR, restriction enzyme digestion, southern blotting...etc.

Preparation before using

1. Add 1.1 ml PKStorage Buffer to the Proteinase Ktube and mix by vortexing. Store prepared Proteinase K (10 mg/ml) at -20°C.

For needle-like FFPE tissue slices

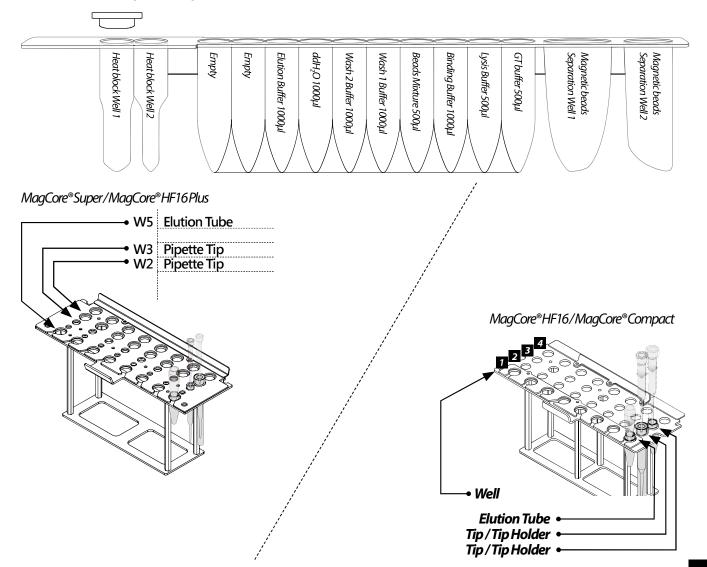
 Add 500 μl Sula Oil, 20 μl PK and the FFPE tissue sample to the bottom of Heat Block well 1 of cartridge, and then cover it up with the Thermostable cap.

Note: If the tissue is too large to lyse (the surface area over 300 mm²), cut it in 4 sections (Please see "important notes step 3") before adding in the heat block well 1 would be suggested. Make sure the tissue is at the bottom of the well to avoid clipping it by Thermostable cap.

- 2. Put Elution Tube and Tip Plus Holder Set (HF16,Compact)/Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 3. Run Code 405 program at MagCore®.

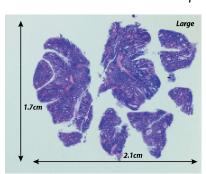
For glass-slide samples

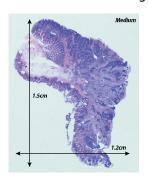
- 1. Drop several Sula Oil on the glass slide and scrape them from the slide carefully, then put in the bottom of **Heat Block well 1**.
- 2. Add 500 μl Sula Oil and 20 μl PK into **Heat Block well 1**, rinse remaining sample on the wall and blade, then cover it up with the Thermostable cap.
- 3. Put Elution Tube and Tip Plus Holder Set (HF16,Compact)/Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 4. Run Code 405 program at MagCore®.

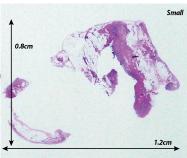


Important Notes

1. The surface area of the FFPE tissue sample could be measured as following examples:







2. Sample amount of preparation can be 1-5 scrolls, each with a thickness up to 5μm. One FFPE scroll could be enough to analyze if the surface area is over 200 mm².

Surface area (mm²)	Sample scroll
200 ↑	1
100-200	1-2
50-100	2-3
50 ↓	3-5 (Don't over load 5 scrolls)

^{*}Overload the sample or paraffin will clog the tip and decrease the yield.

3. If the tissue sample is over 300 mm², we recommend cutting it into 4 sections as following examples:





- 4. If you have no information about the sample, we recommend starting with no more than 1 scroll and cutting it into 4 sections per preparation.
- 5. Sula Oil is a deparaffin buffer. The capacity of the Sula Oil (500 µl) is about 20 mg paraffin per preparation.
- 6. In MagCore®405 program, two different lyse time are provided: 2hr and 16hr.

Recommend

- Both 2hr and 16hr program can extract DNA from FFPE sample.
 Choose 2hr program for saving time; choose 16hr for higher yield.
- 2. If you want to increase DNA yield, an overnight incubation (16hr program) can be performed, but it may result in greater DNA fragmentation.

Troubleshooting	
Symptoms	Comments and suggestions
Low or NO DNA product	 The sample was lysed insufficiently. Make sure the proteinase K was stored at -20 °C, and repeat the procedure using fresh PK. The sample was too large to lyse completely. The large FFPE tissue was suggested cutting into 4 sections, and one scroll was enough for extraction. Clogging tip will affect the extraction process.
Poor PCR results	 Poor quality FFPE samples. Fixation condition can affect PCR performance, such as long-time storage in fixative. DNA fragments. DNA purified from FFPE samples may be fragmented due to formalin fixation, so we suggest keeping amplicons as short as possible for PCR.
Clogging tip or liquid up to the tip filter	 The sample was too large to pipetting. Large tissue clogged the tip would result the liquid up to the tip filter or the extraction cannot finish. We suggest cutting the tissue before adding in the Heat Block well 1. The sample was too much to pipetting. Do not extract too much scrolls at a time. For large tissue, one scroll is enough for extraction; for small tissue, we suggest not over 20mg of FFPE.

MagCore® Forensic DNA Direct Kit

 $For \, extracting \, genomic \, DNA \, from \, for ensic \, samples$

Applicable models: Super, HF16 Plus

Cartridge Code 406

Cat.No.MFC-03SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

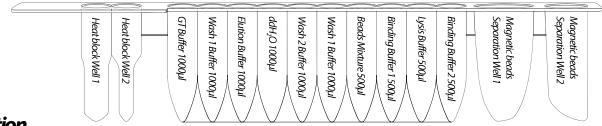
Cat.No. MFC-03SP Contents:

Pre-filled Cartridge Reagent	72 pcs.
Pipette Tip	75 pcs.
FSTip	
200 μl SP Tip	75 pcs.
Elution Tube	
Proteinase K(11mg)	
PK Storage Buffer	2 pcs.
Carrier RNA(1mg)	
RNase Free Water	

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Carrier RNA should be stored at -20°C when mixing with RNase Free Water.
- 3. Proteinase K should be stored at 4°C upon arrival.
- 4. Shelf life 18 months.

Cartridge Contents:



Description

MagCore® Genomic DNA Forensic Kit is designed for purification of total DNA from forensic samples such as dried blood spot, swabs, cigarette butts, chewing gum, hair roots, seminal stain and nail clippings by using MagCore® auto-extraction instrument. It features the method; solid samples can be fully automated purified by the machine without pre-treatment.

Applications

The usage of magnetic-particle technology is to purify genomic DNA from forensic samples. The purified genomic DNA can be directly used for downstream applications such as STR, PCR, real-time PCR, restriction enzyme digestion, southern blotting...etc.

Preparation before using

- 1. Add 1.0 ml RNase Free Water to the Carrier RNA tube and mix by vortexing. Store prepared Carrier RNA (1 mg/ml) at -20°C.
- 2. Add 1.1ml PK Storage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at -20℃
- 3. Please confirm the software of the instrument is updated to the latest version by checking if the program code contains 406A, 406B and 406C from the cartridge number selection page. If not, please contact local distributor.

FS Tip operation steps





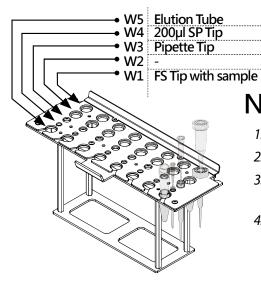




- 1. Take FS Tip out.
- 2. Unscrew the FS Tip lid.
- 3. Transfer the sample into the bottom of FS Tip.



/! 4. Screw the lid moderately, not over tight to prevent tip deformation and leakage of liquid.



Notes

- 1. Sample must be placed at the bottom of the FS Tip.
- 2. It is not recommended to perform the optical test for elution volumes of 30µl.
- 3. For the optical test, please make sure that the Magcore® Cuvettes are placed in the Cartridge Rack.
- 4. 5µl of Carrier RNA (1mg/ml) and 20µl of proteinase K (10mg/ml) must be added to the bottom of Heat block Well 1.

Dried blood spot Protocol

Sample preparation

- 1. Punch 3mm-diameter holes from a dried blood spot with a single-hole paper punch. Place up to 3 punches into the bottom of FS Tip.
- 2. Add 5µl Carrier RNA (1mg/ml) and 20µl proteinase K (10mg/ml) to the bottom of Heat block Well 1.
- 3. Put the 406 cartridges into Cartridge Rack.

Place the FSTip (with Sample) into **well 1**, the Pipette Tip into **well 3**, the 200µl SPTip into **well 4** and the Elution Tube into **well 5** of T-rack. Run Code **406C** program at Magcore® Super/Plus.

Swab Protocol

Sample preparation

- 1. Separate the swab cotton from its stick with scissors. Place the cotton at the bottom of the FSTip.
- 2. Add 5µl Carrier RNA (1mg/ml) and 20µl proteinase K (10mg/ml) to the bottom of Heat block Well 1.
- 3. Put the 406 cartridges into Cartridge Rack.
- 4. Place the FS Tip (with Sample) into **well 1**, the Pipette Tip into **well 3**, the 200µl SP Tip into **well 4** and the Elution Tube into **well 5** of T-rack.
- 5. For blood swab, run Code **406C** program at Magcore® Super; for saliva swab, run Code **406A** program at Magcore® Super/Plus.

Cigarette butts Protocol

Sample preparation

- 1. Cut off 0.5 cm thick of the filter with tipping paper from the filtration zone. Transfer a piece into the bottom of FS Tip.
- 2. Add 5µl Carrier RNA (1mg/ml) and 20µl proteinase K (10mg/ml) to the bottom of **Heat block Well 1**.
- 3. Put the 406 cartridges into Cartridge Rack.
- 4. Place the FST ip (with Sample) into well 1, the Pipette Tip into well 3, the 200µl SPT ip into well 4 and the Elution Tube into well 5 of T-rack.
- 5. Run Code 406B program at Magcore® Super/Plus.

Chewing gum Protocol

Sample preparation

- 1. Cut off a piece of chewing gum(≤30mg). Transfer it into the bottom of FS Tip.
- 2. Add 5µl Carrier RNA (1mg/ml) and 20µl proteinase K (10mg/ml) to the bottom of **Heat block Well 1**.
- 3. Put the 406 cartridges into Cartridge Rack.
- Place the FS Tip (with Sample) into well 1, the Pipette Tip into well 3, the 200μl SP Tip into well 4 and the Elution Tube into well 5 of T-rack.
- 5. Run Code **406B** program at Magcore® Super/Plus.

Hair roots Protocol

Sample preparation

- 1. Cut off 0.5-1 cm piece starting from the hair bulb and transfer it into the bottom of FS Tip.
- 2. Add 5µl Carrier RNA (1mg/ml) and 20µl proteinase K (10mg/ml) to the bottom of **Heat block Well 1**.
- 3. Add 10µlDTT (1M) (not provided) to the bottom of **Heat block Well 1**.
- 4. Put the 406 cartridges into Cartridge Rack.
- 5. Place the FST ip (with Sample) into **well 1**, the Pipette Tip into **well 3**, the 200µl SPT ip into **well 4** and the Elution Tube into **well 5** of T-rack.
- 6. Run Code 406B program at Magcore Super/Plus.

Seminal stain Protocol

Sample preparation

- 1. Place a piece of stained fabric or tissue paper (≤0.5cm2) into the bottom of the FS Tip.
- 2. Add 5µl Carrier RNA (1mg/ml) and 20µl proteinase K (10mg/ml) to the bottom of **Heat block Well 1**.
- 3. Add 10µl DTT (1M) (not provided) into Heat block Well 1.
- 4. Put the 406 cartridges into Cartridge Rack.
- 5. Place the FST ip (with Sample) into **well 1**, the Pipette Tip into **well 3**, the 200µl SPT ip into **well 4** and the Elution Tube into **well 5** of T-rack.
- 6. Run Code 406C program at Magcore® Super/Plus.

Nail clippings Protocol

Sample preparation

- 1. Transfer the nail clippings (≤10 mg) into the bottom of FS Tip.
- 2. Add 5µl Carrier RNA (1mg/ml) and 20µl proteinase K (10mg/ml) to the bottom of **Heat block Well 1**.
- 3. Add 10µlDTT (1M) (not provided) to the bottom of **Heat block Well 1**.
- 4. Put the 406 cartridges into Cartridge Rack.
- 5. Place the FST ip (with Sample) into **well 1**, the Pipette Tip into **well 3**, the 200µl SPT ip into **well 4** and the Elution Tube into **well 5** of T-rack.
- 6. Run Code 406C program at Magcore® Super/Plus.

Selection Guide

Sample	Guthrieco	ard/Paper	Sw	ab	Fal	bric	Cigarette butt	Hairroot	Seminalstain	Chewinggum	Nail clipping
Program	Blood	Saliva	Blood	Saliva	Blood	Saliva	Cigarette butt	riai root	Serriiriarstairi	Chewinggain	Naii ciippii ig
406A											
406B											
406C											

MagCore®Genomic DNA Bacterial Kit

For extraction of genomic DNA from bacteria.

Applicable models: HF16, Compact, HF48, Super, HF16 Plus

Cartridge Code 502

Cat.No.MBB-01 // MBB-02 (HF16, Compact, HF48) Cat.No.MBB-01 SP// MBB-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat.No. MBB-01 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	36 sets.
Sample Tube	36 pcs.
Elution Tube	
Lysozyme Reaction Buffer(15ml)	1 pcs.
Proteinase K(11mg)	2 pcs.
PK Storage Buffer	2 pcs.
RNase A(50ma/ml, 160ul)	1 pcs.

Cat.No. MBB-01SP Contents:

Cata to: MDD 0151 Contents.	
Pre-filled Cartridge Reagent	36 pcs
Pipette Tip	36 pcs
Sample Tube	
Elution Tube	36 pcs.
Lysozyme Reaction Buffer(15ml)	1 pcs.
Proteinase K(11mg)	2pcs
PK Storage Buffer	2 pcs.
RNase A(50mg/ml, 160µl)	1 pcs.

Cat.No. MBB-02 Contents:

Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	
Lysozyme Reaction Buffer(30ml)	1 pcs.
Proteinase K(11mg)	4pcs.
PK Storage Buffer	4 pcs.
RNase A(50mg/ml, 400µl)	1 pcs.

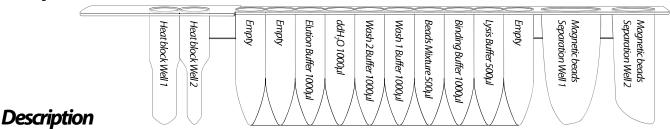
Cat.No. MBB-02SP Contents:

Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	
Elution Tube	
Lysozyme Reaction Buffer(30ml)	1 pcs.
Proteinase K(11mg)	4 pcs.
PK Storage Buffer	4 pcs.
RNase A(50mg/ml, 400µl)	1 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Proteinase K should be store at 4 `Cupon arrival.
- 3. For long term storage, RNase A should be stored at 4 $^{\circ}$ C.
- 4. Shelf life 18 months.

Cartridge Contents:



MagCore® Genomic DNA Bacterial kit is designed to extract genomic DNA from both Gram+ and Gram- bacteria via MagCore® auto-extraction instrument. The kit contains all required reagent and labware for automated purification using magnetic-particle technology. Easy select program code number 502 in MagCore® and combine using MagCore® Genomic DNA Bacterial Kit can extract high quality genomic DNA.

Applications

Using magnetic-particle technology to purify genomic DNA from both Gram+ and Gram-bacteria. The purified genomic DNA can be directly used for downstream application such as quantitative PCR, restriction enzyme digestion, southern blotting... etc.

Preparation before using

- 1. Add 1.1ml PK Storage Buffer to the Proteinase K tube and mix by vortexing. Store prepared Proteinase K (10mg/ml) at 4° C.
- Freshly prepared 20mg/ml Lysozyme solution before use. (for Gream + bacteria isolation, Lysozyme solution is necessary)
 Lysozyme (not provided) + Lysozyme Reaction Buffer = Lysozyme Solution

For Sputum Specimens

Specimens Decontamination

- Fresh prepare 0.5% NALC in 2% NaOH, 1.5% Na-Citrate solution. (Ex: 0.25g NALC in 50mL NALC-NaOH solution)
- 2. Mix 10mL specimen with 10mL NALC-NaOH sol'n, RT°C for 15 min.
- 3. Add 25mL PBS, mix and centrifuge 3000 x g for 15 min.
- 4. Discard supernatant, resuspend pellet with 200µl Lysozyme solution and transfer to the MagCore® Sample Tube.
- 5. Incubate for at least 30min at 37°C. During incubation, vortex the tube every 5min.

Cell Lysis

- 1. Add 4µl RNase A (50mg/ml) to sample mixture(including any precipitate) and vortex to mix sample.
- 2. Incubate at room temperature for 10min.
- 3. Resuspend sample mixture by pipetting.
- 4. Adding 40µl Proteinase K(10mg/ml) to sample mixture and vortex to mix sample.
- 5. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 6. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 7. Run Code.502 program at MagCore®.

General Protocol

- 1. Harvest bacteria (maximum 5x 10⁶ cells) into the MagCore®Sample Tube by centrifuging at 5000 x g(8000rpm) for 3min. Discard supernatant.
- 2. Resuspend bacterial pellet in 200µl Lysozyme Solution by vortexing or pipetting. (if target is Gram- bacteria, please use Lysozyme Reaction Buffer)
- 3. Incubate for at least 30min at 37°C and vortex the tube every 5min. (for Gram-bacteria isolation, you can skip this step)
- 4. Add 4µl RNase A (50mg/ml) to sample mixture(including any precipitate) and vortex to mix sample.
- 5. Incubate at room temperature for 10min.
- 6. Resuspend sample mixture by pipetting.
- 7. Adding 40µl Proteinase K(10mg/ml) to sample mixture and vortex to mix sample.
- 8. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 9. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10) 10.Run Code.502 program at MagCore®.

MagCore® Total RNA Whole Blood Kit

For total RNA extraction from human whole blood. Applicable models: HF16, Compact, Super, HF16 Plus

Cartridge Code 601

Cat.No.MRN-01 // MRN-02 (HF16, Compact)
Cat.No.MRN-01SP // MRN-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

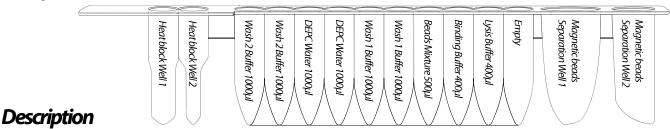
Cat.No. MRN-01 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	36 sets.
Sample Tube	36 pcs.
Elution Tube	36 pcs.
RBC Lysis Buffer(100ml)	
RB Buffer(15ml)	1 pcs.
Cat.No. MRN-01SP Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pre-filled Cartridge Reagent	36 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube	36 pcs.
	36 pcs.
Pre-filled Cartridge Reagent Pipette Tip Sample Tube	36 pcs. 36 pcs. 36 pcs. 1 pcs.

Cat.No. MRN-02 Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution lube	100 pcs.
RBC Lysis Buffer(200ml)	1 pcs.
RB Buffer(30ml)	1 pcs.
Cat.No. MRN-02SP Contents:	
Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	100 pcs
Elution Tube	100 pcs.
RBC Lysis Buffer(200ml)	1 pcs.
RB Buffer(30ml)	1 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Shelf life 18 months.

Cartridge Contents:



MagCore® Total RNA Whole Blood Kit is specially designed for total RNA purification from up to 400µl human whole blood of leukocytes. The program provides optional protocol for contaminated genomic DNA remove. Combine RBC high quality RNase-free DNase I with MagCore® Total RNA Whole Blood Kit can provide high quality DNA-free total RNA.

Applications

Using magnetic-particle technology to purify total RNA. The purified RNA can be directly used for downstream application such as real-time PCR, RT-PCR, cDNA synthesis... etc.

Preparation before using

- β-Mercaptoethanol (β-ME; not provided) must be added to RB Buffer before use. Add 10µl of β-ME per 1 ml of RB Buffer.
- 2. Recommended Step: DNA residue degradation. Prepare DNase I (RNase-free) working solution according to the table below. Add 10µl DNase I with 190µl DNase reaction buffer (1X) in the 1.5 ml screw tube (not provided) and place it into well 3 of T-Rack.

Healthy Whole blood	DNase I	DNase buffer 1X
Up to 400 μl	10 μΙ	190 μΙ

3. RNase-free DNase I is not including in MagCore®total RNA Whole Blood Kit, we recommend to use RBC RNase-free DNase I (Cat#DN036 or Cat#DN096) for genomic DNA treatment. For product information, please contact RBC Bioscience distributor. We also recommend to use RNase-free DNase I enzyme(1U/µI) of Novagen (Cat#69182-3). Please contact local Merck branch office or distributor for product information. 1X DNase Buffer can be prepared as following:

1XDNase I reaction buffer

10 mMTris, pH7.6; 2.5 mMMgCl₂; 0.1 mM CaCl₂; in DEPC water, autoclave.

Fresh Whole Blood Protocol

Without DNase I treatment

- 1. Add 1 volume of human whole blood with 3 volumes of RBC lysis Buffer in an appropriately sized tube (not provided) and mix by inversion. Do not vortex. (For example, add 1200µl of RBC lysis Buffer to 400µl of whole blood.)
- 2. Incubate the tube for 10 minutes on ice and invert 2~3 times during incubation.
- 3. Centrifuge for 3 minutes at 500 x g (2,500 rpm) at 4 °C and completely discard the supernatant.
- 4. Add 500µl RBC lysis Buffer to the cell pellet. Resuspend cells by vortex briefly.
- 5. Transfer the suspended cells to the MagCore® Sample Tube.
- 6. Centrifuge for 3 minutes at 500 x g (2,500 rpm) at 4 °C and completely discard the supernatant.
- 7. Add 200 μ I RB buffer (contain β -ME) to the white pellet and mix by vortexing. (can storage up to 1 month at -80°C)
- 8. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 9. Put Elution Tube and Tip Plus Holder Set (HF16,Compact)/Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 10. Run Code.601 program at MagCore® and select Remove Genomic DNA (2)NO.

- 1. Follow step 1~9 of without DNase I treatnent protocol to prepare whole blood cell sample.
- 2. Be sure to place the 200µl DNase I mixture (in 1.5 ml screw tube) into the well 3 of T-Rack.
- 3. Run Code.601 program at MagCore® and select Remove Genomic DNA (1)YES.

MagCore® Total RNA Cultured Cells Kit

For total RNA extraction from cultured cells. Applicable models: HF16, Compact, Super, HF16 Plus

Cartridge Code 610

Cat.No.MRC-01 // MRC-02 (HF16, Compact)
Cat.No.MRC-01SP // MRC-02SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat.No. MRC-01 Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipet Tip plus Holder Set	36 sets.
Sample Tube	36 pcs.
Elution Tube	36 pcs.
RB Buffer(15ml)	1 pcs.
Cat.No. MRC-01SP Contents:	
Pre-filled Cartridge Reagent	36 pcs.
Pipette Tip	36 pcs.
Sample Tube	36 pcs.
	36
Elution Tube	36 pcs.
RB Buffer(15ml)	1 pcs.

* For isolation of total RNA from animal tissues and FFPE samples, the MagCore®total RNA Cultured Cells Kit is a relatively suitable choice and functions with a special protocol. In the near future, a more unique and convenient reagent will be developed for the extraction of RNA from animal tissue and FFPE samples.

Cat.No. MRC-02 Contents:

Pre-filled Cartridge Reagent	96 pcs.
Pipet Tip plus Holder Set	100 sets.
Sample Tube	100 pcs.
Elution Tube	100 pcs.
RB Buffer(30ml)	1 pcs.

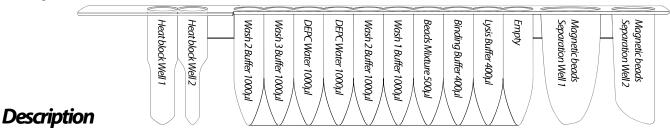
Cat.No. MRC-02SP Contents:

Pre-filled Cartridge Reagent	96 pcs.
Pipette Tip	100 pcs.
Sample Tube	
Elution Tube	
RB Buffer(30ml)	1 pcs.

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2.Shelflife 18 months.

Cartridge Contents:



MagCore® Total RNA Cultured Cells Kit is specially designed for total RNA purification from up to 1x10⁶ cultured cells by using MagCore® auto-extraction instrument. The program provides optional protocol for contaminated genomic DNA remove. Combine RBC high quality RNase-free DNase I with MagCore® Total RNA Cultured Cells Kit can provide high quality DNA-free total RNA.

Applications

Using magnetic-particle technology to purify total RNA. The purified RNA can be directly used for downstream application such as real-time PCR, RT-PCR, cDNA synthesis... etc.

Preparation before using

- 1. β -Mercaptoethanol (β -ME; not provided) must be added to RB Buffer before use. Add 10 μ l of β -ME per 1 ml of RB Buffer.
- 2. Recommended Step: DNA residue degradation. Prepare DNase I (RNase-free) working solution according to the table below. Add 10µl DNase I with 190µl DNase reaction buffer (1X) in the 1.5 ml screw tube (not provided) and place it into well 3 of T-Rack.

Cultured Cells	DNase I	1X DNase Buffer
<i>Up to 1x10⁶</i>	10 μΙ	190 μΙ

3. RNase-free DNase I is not including in MagCore®total RNA Cultured Cells Kit, we recommend to use RBC RNase-free DNase I (Cat#DN036 or Cat#DN096) for genomic DNA treatment. For product information, please contact RBC Bioscience distributor. We also recommend to use RNase-free DNase I enzyme(1U/µI) of Novagen (Cat#69182-3). Please contact local Merck branch office or distributor for product information. 1X DNase Buffer can be prepared as following:

1X DNase I reaction buffer

10mMTris, pH7.6;2.5mMMqCl₂;0.1 mMCaCl₂;in DEPC water, autoclave.

Cultured Cells Protocol

Sample Preparation

A. Cells grown in suspension

Cells grown in suspension(up to 1×10^6 cells). Determine the number of cells. Transfer appropriate number of cells to the MagCore® Sample Tube(provided) and centrifuge for 5 min. at $300 \times g$. Remove the supernatant completely and discard, Continue with MagCore® Operation step.

B. Cells grown in a monolayer

Cells grown in a monolayer(up to 1×10^6 cells). Cells grown in a monolayer can be detached from the culture flask by either trypsinization or using a cell scraper.

To trypsinize cells:

Determine the number of cells. Aspirate the medium and wash cells with PBS (not provided). Aspirate the PBS, and add 0.10-0.25% trypsin. After cells have detached from the dish or flask, collect them in medium, and transfer the appropriate number of cells(up to 1×10^6 cells) to the MagCore®Sample Tube(provided). Centrifuge for 5 min. at $300 \times g$. Remove the supernatant completely and discard, taking care not to disturb the cell pellet. Continue with MagCore®Operation step.

Using a cell scraper:

Detach cells from the dish or flask. Transfer the appropriate number of cells (up to 1×10^6 cells) to the MagCore® Sample Tube (provided) and centrifuge for 5 min. at $300 \times g$. Remove the supernatant completely and discard, taking care not to disturb the cell pellet. Continue with MagCore® Operation step.

MagCore®Operation

Without DNase I treatment

- Add 200μl RB buffer (contain β-ME) to the cells pellet and mix by vortexing (can storage up to 1 month at -80°C).
- 2. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 3. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 4. Run Code.610 program at MagCore® and select Remove Genomic DNA (2)NO.

- 1. Follow step 1~3 of without DNase I treatment protocol to prepare culture cell sample.
- 2. Be sure to place the 200µl DNase I mixture (in 1.5 ml screw tube) into the well 3 of T-Rack.
- 3. Run Code.610 program at MagCore® and select Remove Genomic DNA (1) YES.

MagCore® triXact RNA Kit

For extraction of total RNA from cultured cells, human whole blood and animal tissues.

Cartridge Code 631

Cat No MRX-01 Contents:

Cat.No.MRX-01 // MRX-03 (HF16, Compact)
Cat.No.MRX-01SP // MRX-03SP (Super, HF16 Plus)

Kit Contents

Check that the following parts are included in addition to the main unit:

Cat. No. Why-o'r Contents.	
Pre-filled Cartridge Reagent	24 pcs.
Pipet Tip plus Holder Set	25pcs.
Sample Tube	25pcs.
Elution Tube	
RBC Lysis Buffer (100 ml)	1 pcs.
RB Buffer(30ml)	1 pcs.
Filter column Set	

Cat.No. MRX-01SP Contents:

Pre-filled Cartridge Reagent	24 pcs.
Pipette Tip	
Sample Tube	
Elution Tube	
RBC Lysis Buffer (100 ml)	1 pcs
RB Buffer(30ml)	•
Filter column Set	

Cat.No. MRX-03 Contents:

Pre-filled Cartridge Reagent	72 pcs.
Pipet Tip plus Holder Set	75pcs.
Sample Tube	
Elution Tube	
RBC Lysis Buffer (100 ml)	
RB Buffer(30ml)	
Filter column Set	

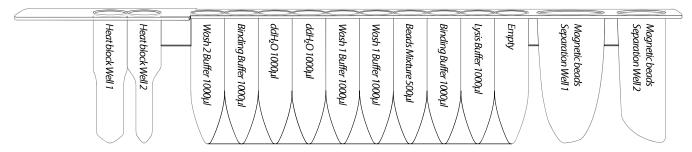
Cat.No. MRX-03SP Contents:

Pre-filled Cartridge Reagent	72 pcs.
Pipette Tip	75pcs.
Sample Tube	
Elution Tube	
RBC Lysis Buffer (100 ml)	1 pcs.
RB Buffer(30ml)	
Filter column Set	

Storage and Stability:

- 1. This kit should be stored at room temperature.
- 2. Shelf life 18 months.

Cartridge Contents:



Description

MagCore® triXact RNA Kit is specially designed for total RNA purification from up to 1x10⁶ cultured cells, a variety of animal tissues, or up to 400 µl human whole blood. The program provides optional DNase I treatment to remove residual DNA from contaminating the results. High quality DNA-free RNA can be extracted using this kit along with our RNase-free DNase I.

Applications

Using magnetic-particle technology to purify total RNA from cultured cells, human whole blood, and animal tissue samples. The purified RNA can be directly used for downstream application such as real-time PCR, RT-PCR, cDNA synthesis...etc.

Running Time: 48min (without DNase I treatment; starting volume: 400 μl) **81min** (with DNase I treatment; starting volume: 400 μl)

Preparation before using

- 1. β -Mercaptoethanol (β -ME; not provided) must be added to RB Buffer before use. Add 10 μ l of β -ME per 1 ml of RB Buffer.
- 2. Recommended Step: DNase I Treatment. Prepare DNase I (RNase-free) working solution: add 10 μl DNase I with 190 μl DNase reaction buffer (1X) in 1.5 ml screw tube (not provided) and place it into the correct wells of T-Rack. (see page 3-10)
- 3. RNase-free DNase I is not included in MagCore® triXact RNA Kit, we recommend using RBC RNase-free DNase I (Cat#DN036 or Cat#DN096) for genomic DNA treatment. For more product information, please contact your local distributor.

Cultured Cells Protocol

Sample Preparation

A. Cells grown in suspension

For cells grown in suspension (up to 1X10⁶ cells), first determine the number of cells. Transfer appropriate number of cells to the MagCore® Sample Tube (provided) and centrifuge at 300g for 5 minutes. Remove the supernatant completely and discard. Continue with MagCore® Operation steps.

B. Cells grown in a monolayer

For cells grown in a monolayer (up to 1X10⁶ cells), cells can be detached from the culture flask by either trypsinization or using a cell scraper

To trypsinize cells:

Determine the number of cells. Aspirate the medium and wash cells with PBS (not provided). Aspirate the PBS, and add 0.10-0.25% trypsin. Once cells have detached from the dish or flask, collect them in medium, and transfer the appropriate number of cells (up to 1X10⁶ cells) to the MagCore® Sample Tube (provided). Centrifuge at 300g for 5 minutes. Remove the supernatant completely and discard. Be careful not to disturb the cell pellet. Continue with MagCore® Operation steps.

Using a cell scraper:

Detach cells from the dish or flask. Transfer the appropriate number of cells (up to 1X10⁶ cells) to the MagCore® Sample Tube (provided) and centrifuge at 300g for 5 minutes. Remove the supernatant completely and discard. Be careful not to disturb the cell pellet. Continue with MagCore® Operation steps.

MagCore® Operation

Without DNase I treatment

- 1. Add 400 μ l RB Buffer (contain β -ME) to the cell pellet and mix by vortexing. (can store up to 1 month at -80°C).
- 2. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 3. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 4. Run Code.631 program at MagCore® and select (2) NO to "Remove Genomic DNA".

- 1. Follow step 1~3 of without DNase I treatment protocol to prepare cultured cells sample.
- 2. Be sure to place the 200 µl DNase I mixture (in 1.5 ml screw tube) into the correct well of T-Rack. (see page 3-10)
- 3. Run code.631 program at MagCore® and select (1) YES for DNase I treatment.

Fresh Whole Blood Protocol

Without DNase I treatment

- 1. Add 1 volume of human whole blood with 3 volumes of RBC lysis Buffer in an appropriately sized tube (not provided) and mix by inversion. Do not vortex. (For example, add 1200 µl of RBC lysis Buffer to 400 µl of whole blood.)
- 2. Incubate the tube on ice for 10 minutes and invert 2~3 times during incubation.
- 3. Centrifuge for 3 minutes at $500 \times g$ (2500rpm) at 4°C and completely discard the supernatant.
- 4. Add 500 µl RBC lysis Buffer to the cell pellet. Resuspend cells by brief vortexing.
- 5. Transfer the suspended cells to the MagCore® Sample Tube.
- 6. Centrifuge for 3 minutes at $500 \times g$ (2500rpm) at 4°C and discard the supernatant completely.
- 7. Add 400 μ I RB buffer (contain β -ME) to the pellet and mix by vortexing. (can store up to 1 month at -80 °C
- 8. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 9. Put Elution Tube and Tip Plus Holder Set (HF16,Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10) 10.Run code.631 program on MagCore® and select DNase I treatment (2) NO.

- 1. Follow step 1~9 of the protocol above (without DNase I treatment) to prepare whole blood cell sample.
- 2. Be sure to place the 200 µl DNase I mixture (in 1.5 ml screw tube) into the correct well of T-Rack. (see page 3-10)
- 3. Run Code.631 program on MagCore® and select (1) YES for DNase I treatment.

Tissue Protocol

Cell Lysis

- 1. Cut off up to 50 mg of fresh or frozen animal tissue and transfer into a RNase-free microcentrifuge tube(not provided).
- 2. Add 400 μ l RB Buffer (containing β -ME) into the tube and use RNase-free micropestle (not provided) to sufficiently grind the tissue a few times.
- 3. Incubate at room temperature for 5 minutes. Use a Filter Column Set and apply sample mixture to the column.
- 4. Centrifuge the filtrate for 2 minutes at full speed (10000 x g or 13000 rpm) and transfer the clear supernatant to Sample Tube.

With DNase I treatment

- 1. Put the prepared Sample Tube into the correct well of T-Rack. (see page 3-10)
- 2. Put Elution Tube and Tip Plus Holder Set (HF16, Compact) / Pipette Tip (Super, Plus) into the correct wells of T-Rack. (see page 3-10)
- 3. Run Code.631 program on MagCore® and select (2) NO to "Remove Genomic DNA".

- 1. Follow step 1~2 of without DNase I treatment protocol to prepare tissue sample.
- 2. Be sure to place the 200 µl DNase I mixture (in 1.5 ml screw tube) into the correct well of T-Rack. (see page 3-10)
- 3. Run code.631 program on MagCore® and select (1) YES for DNase I treatment.

Running Time List - MagCore® HF16, Compact

Product	Reactions	Code No.	Running Time
MagCore® Genomic DNA Whole Blood Kit	36	101	44 min (sample volume :200 μl) 57 min (sample volume :400 μl)
(Speedy Installation)	96		
	36		44 min (sample volume :200 μl)
MagCore® Genomic DNA Whole Blood Kit	96	102	55 min (sample volume :400 μl)
MagCore® Genomic DNA Large Volume Whole Blood Kit	96	104	76 min (sample volume :1200 μl)
MagCore® Plasma DNA Extraction Kit	96	105	70 min (sample volume :1200 μl)
	36		
MagCore® Cultured cells DNA Kit	96	110	44 min (sample volume: 200 μl, up to 5 x 10° cells)
	36		45 min (sample volume :200 μl)
MagCore® Viral Nucleic Acid Extraction Kit	96	201	56 min (sample volume :400 μl)
	36		57 min (sample volume :200 μl)
MagCore® Viral Nucleic Acid Extraction Kit	96	202	66 min (sample volume :400 μl)
MagCore® Viral Nucleic Acid Extraction Kit (2.4ml)	96	210	90 min (sample volume :2400 μl)
MagCore® Viral Nucleic Acid Extraction Kit (1.2ml)	96	211	73 min (sample volume :1200 µl)
M 6 86 : DNA DI 1181	36	201	22
MagCore® Genomic DINA Plant Kit	96	301	33 min (sample volume :400 μl)
AL C. S.C. I DNATI	36	401	22
magCore® Genomic DINA Tissue Kit	96	401	33 min (sample volume :400 μl)
AA-Coop® Cooperatio DNA Douberiel Wit	36	502	Marsin (consultation and continue and contin
magCore- Genomic DIVA bacteriai Kit	96	302	44 min (sample volume :200 μl)
MacCave® Total DNA Whale DI JV:	36	601	42min (without DNase I treatment)
миусоге ⁻ тотат к <i>NA w</i> поле в1000 Kit	96	001	68min (with DNase I treatment) (sample volume :200 μl)
Manager and Table 1984 Colleges and a Hallis	36	610	42min (without DNase I treatment)
magcore - Total KNA Culturea cells Kit	96	610	73 min (with DNase I treatment) (sample volume :200 μl)
MagCore® triXact RNA Kit	24	631	48min (without DNase I treatment) 81 min (with DNase I treatment)
	MagCore® Genomic DNA Whole Blood Kit (Speedy Installation) MagCore® Genomic DNA Whole Blood Kit MagCore® Genomic DNA Large Volume Whole Blood Kit MagCore® Plasma DNA Extraction Kit MagCore® Cultured cells DNA Kit MagCore® Viral Nucleic Acid Extraction Kit MagCore® Viral Nucleic Acid Extraction Kit MagCore® Viral Nucleic Acid Extraction Kit (2.4ml) MagCore® Viral Nucleic Acid Extraction Kit (1.2ml) MagCore® Genomic DNA Plant Kit MagCore® Genomic DNA Tissue Kit MagCore® Genomic DNA Bacterial Kit MagCore® Total RNA Whole Blood Kit MagCore® Total RNA Cultured cells Kit	MagCore® Genomic DNA Whole Blood Kit (Speedy Installation) MagCore® Genomic DNA Whole Blood Kit 96 MagCore® Genomic DNA Large Volume Whole Blood Kit 96 MagCore® Plasma DNA Extraction Kit 96 MagCore® Cultured cells DNA Kit 96 MagCore® Viral Nucleic Acid Extraction Kit (2.4ml) 96 MagCore® Genomic DNA Plant Kit 96 MagCore® Genomic DNA Tissue Kit 96 MagCore® Genomic DNA Bacterial Kit 96 MagCore® Total RNA Whole Blood Kit 96 MagCore® Total RNA Cultured cells Kit 96	MagCore* Genomic DNA Whole Blood Kit (Speedy Installation)36101MagCore* Genomic DNA Whole Blood Kit36102MagCore* Genomic DNA Large Volume Whole Blood Kit96104MagCore* Plasma DNA Extraction Kit96105MagCore* Cultured cells DNA Kit36110MagCore* Viral Nucleic Acid Extraction Kit96201MagCore* Viral Nucleic Acid Extraction Kit96202MagCore* Viral Nucleic Acid Extraction Kit (2.4ml)96210MagCore* Viral Nucleic Acid Extraction Kit (1.2ml)96211MagCore* Genomic DNA Plant Kit36301MagCore* Genomic DNA Plant Kit96401MagCore* Genomic DNA Bacterial Kit9636MagCore* Total RNA Whole Blood Kit96601MagCore* Total RNA Whole Blood Kit96601MagCore* Total RNA Cultured cells Kit96610MagCore* trixact RNA Kit24631

Running Time List - MagCore® Super, HF16 Plus

Cat. Number	Product	Reactions	Code No.	Running Time without optical detection		
MGB400-01SP	MaqCore® Genomic DNA Whole Blood Kit	36	101		39 min (sample volume :200 ul)	39 min (sample volume :200 μl)
MGB400-02SP	(Speedy Installation)	96	101	50 min (sample volume :400 μl)		
MGB400-03SP	M C 25 : DNAM D	36		100	39min (sample volume :200 μl)	
MGB400-04SP	MagCore® Genomic DNA Whole Blood Kit	96	102	50min (sample volume :400 μl)		
MGB1200SP	MagCore® Genomic DNA Large Volume Whole Blood Kit	96	104	83 min (sample volume :1200 μl)		
MPD1200SP	MagCore® Plasma DNA Extraction Kit	96	105	74 min (sample volume :1200 μl)		
MGB400-07SP	MagCore® Genomic DNA Whole Blood Kit (For Genotyping)	36 96	106	41min (sample volume :200 μl) 53min (sample volume :400 μl)		
MGB400-08SP MCC-01SP		36		John (sumple volume .400 μι)		
MCC-02SP	MagCore® Cultured cells DNA Kit	96	110	39 min (sample volume: 200 μl)		
MVN400-01SP		36		44 min (sample volume :200 μl)		
MVN400-02SP	MagCore® Viral Nucleic Acid Extraction Kit	96	201	55 min (sample volume :400 μl)		
MVN400-03SP		36		62 min (sample volume :200 μl)		
MVN400-04SP	MagCore® Viral Nucleic Acid Extraction Kit	96	202	73 min (sample volume :400 μl)		
MVN1200SP	MagCore® Viral Nucleic Acid Extraction Kit (1.2ml)	96	211	80 min (sample volume :1200 μl)		
MGP-01SP	MagCara® Canamic DNA Blant Vit	36	261	33 min (sample volume :400 μl)		
MGP-02SP	MagCore® Genomic DNA Plant Kit	96	301			
MGT-01SP	MagCara® Canamia DNA Tigua Kit	36	401	22 main (a granda yaluma (400 yil)		
MGT-02SP	MagCore® Genomic DNA Tissue Kit	96	401	33 min (sample volume :400 μl)		
MGF-01SP	MaqCore® Genomic DNA FFPE One-Step Kit	36	405	159 min (2-hour heating) - Standard		
MGF-02SP	Magcore denomic DNA FFFE One-step Kil	72	403	998 min (16-hour heating) - High Yield		
MFC-03SP	MagCore® Forenisc DNA Direct Kit	72	406	120 min		
MBB-01SP	MacCara® Canamic DNA Pactorial Vit	36	502	20 main /a annula valuma a 200 vII)		
MBB-02SP	MagCore® Genomic DNA Bacterial Kit	96	502	39 min (sample volume :200 μl)		
MRN-01SP	MagCore® Total RNA Whole Blood Kit	36	601	50 min (without DNase I treatment) 75 min (with DNase I treatment)		
MRN-02SP	Mugcole Total NIVA WHOLE BIOUD NIL	96	001	75 min (with Divase i treatment) (sample volume :200 μl)		
MRC-01SP		36		52 min (without DNase I treatment)		
MRC-02SP	MagCore® Total RNA Cultured cells Kit	96	610	79 min (with DNase I treatment) (sample volume :200 μl)		
MRX-01SP MRX-03SP	MagCore® triXact RNA Kit	24 72	631	48min (without DNase I treatment) 81 min (with DNase I treatment)		

^{*}Optical detection tact time: 15 min

Product Selection Guide

Anin Culti Free circula Cell-free b Plasm B	St Fi Sw ant Tis ant Tis and Tis ured C tting D Ul	FPE wab wab uum cells sue cells NNA rine uids	MGB400-01 MGB400-022 ■ ■ MGB400-025P ■ ■	MGB400-03 MGB400-04 ■ ■ MGB400-04SP ■ ■	MGB1200 ■ MGB1200SP	MPD1200SP ■ ■ ■ ■	MGB400-07 MGB400-08 ■ MGB400-085P ■	MCC-01 MCC-02 ■ ■	MGP-01 MGP-02 ■ ■ ■		MGF-01 MGF-03 ■ ■ ■	MFC-03SP	MBB-01 MBB-02 ■ ■ MBB-02SP	MVN400-015P	MVN400-03SP MVN400-04SP	MVN2400	M/N/1200 M/N/1200SP	MRN-01 MRN-01SP ■ MRN-02SP ■	-
			101 MagCore® Genomic DNA Whole Blood Kit (Speedy instalkation) MC	102 MagCore® Genomic DNA Whole Blood Kit	104 MagCore®GenomicDNA Large Volume Whole Blood Kit (1.2 ml)	105 MagCore® Plasma DNA Extraction Kit (1.2 ml)	106 MagCore® Genomic DNA Whole Blood Kit (For Genotyping)	110 MagCore® Cultured Cells DNA Kit MG	301 MagCore® Genomic DNA Plant Kit	401 MagCore® Genomic DNA Tissue Kit	405 MagCore®GenomicDNA FFPE One-Step Kit MC	406 MagCore® Forensic DNA Direct Kit	502 MagCore® Genomic DNA Bacterial Kit ME	201 MagCore®ViralNucleicAcid Extraction Kit	202 MagCore®ViralNucleicAcid Extraction Kit (Low PCRInhibition) M. M.	210 MagCore®ViralNucleic Acid Large Volume Extraction Kit (2.4 ml)	序. 211 MagCore®Viral Nucleic Acid Large Volume Extraction Kit (1.2 ml)	601 MagCore® Total RNA Whole Blood Kit	OI

Ordering Information

Product	Contents	Cat. No.
Accessories of HF1	5	
Cartridge Rack		MRC001
T-Rack	For general using	MRC002
T-Rack (for 5 ml sample tube)	For MVN2400	MRC003
Accessories of HF1	6 Plus and Super	•
Cartridge Rack		P46020018
T-Rack		P46020019
M = -C = = C = + + +	10 pcs	MSC010
MagCore® Cuvette set	100 pcs	MSC100
Th	(57mmx 50mm x12mm) *1 roll	P46020008
Thermal paper	(57mmx 50mm x12mm) *5 roll	P46020009
Enzyme		
Proteinase K Set	11 mg Proteinase K, 1.25 ml PK Storage Buffer	PK011
RNase A	50 μl RNase A (50mg/ml)	RN050
KINASE A	130 μl RNase A (50mg/ml)	RN130
luca muma	Lysozyme 20 mg/vial x1	YLY20
Lysozyme	Lysozyme 250 mg/ vial x4	YLY250
01115	For 36 reactions RNase-Free DNase I (Lyophilized):1500 Kunitz units x 1 vial, 1 ml RNase-Free Water x1, 15 ml DNase I Reaction Buffe	DN036
DNase I Set	For 96 reactions RNase-Free DNase I (Lyophilized):1500 Kunitz units x 2 vial, 1 ml RNase-Free Water x2, 30 ml DNase I Reaction Buffer	DN096





RBC Bioscience Corp.

www.rbcbioscience.com info@rbcbioscience.com





RBC Bioscience Corp. 3F., No.132, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 23145, TAIWAN. TEL: +886-2-8912-1200 FAX: +886-2-8912-1300



Wellkang Ltd (www.CE-marking.eu) 29 Harley St. London W1G 9QR, UK

