













Nucleic Acid Isolation & Automatic Solution

Catalogue

Introduction Company Introduction Technology Overview 2 **Extraction Kit** Circulating DNA/RNA Purification • FFPE DNA/RNA Isolation Tissue/Cells/Blood DNA/RNA Extraction Viral DNA/RNA Extraction 16 Plant DNA/RNA Extraction 18 Microbial DNA/RNA Extraction 20 Plasmid DNA Isolation 23 DNA/RNA Clean-up 25 miRNA Extraction 27 DNA/RNA/Protein Co-Isolation 28 Sample Preservation Sample Preservation 29 Machine Nucleic acid Isolation Machine 30 Raw material & Consumable Spin Column 34 Magnetic particle 36 Chemical & Enzyme 38 **Application** NIPT/NIPPT 40 Cancer Research/Liquid Biopsy 43 Genetic Screening 46 Viral/Pathogen Research 50 53 Plant Research Forensic Detecting 56 Environmental Testing 58

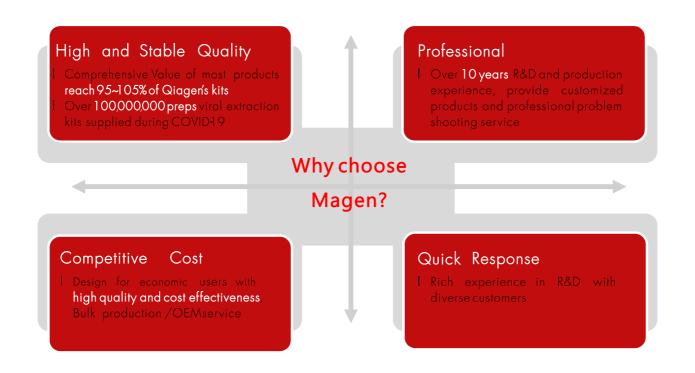
Magen ---- Expert in Biological Sample Preparation

Magen is a biology company focused on biological samples preparation for **ten years**, including sample collection and preservation, nucleic acid purification, and automation with **over 500 different products**. We are aiming to supply high quality products and solutions to clinical users, scientific researchers, biology companies, agricultural applications and related government departments. Magen nucleic acid purification products offer for all biological samples, and have unique advantages in high throughput sample processing.

Magen nucleic acid purification products can be simply divided into 4 series. Silic membrane column purification (HiPure), magnetic particles purification (MagPure), salting out purification (SolPure) and DNA/RNA/ protein coisolatoin (AllPure). We also provide Automatic Nucleic Acid Purification Machines. About 80% products have been compared with Qiagen, MN, Life, ect corresponding products. And all got excellent performance overall. In 2015, the company got in vitro diagnostic reagents production qualification, now we have dozens of nucleic acid purification products in clinical applications.

MagPure Circulating DNA Kits are mainstream products of noninvasive prenatal testing (NIPT) in Chinese market, which get about 70% market share in this field. HiPure Circulating DNA Kits (column method) possess excellent performance and cost effectiveness, not only hot sale in domestic market, are also popular in international markets. MagPure virus nucleic acid purification kits have high sensitivity detecting ability and stable quality, already used in various Provincial disease control centers, Entry and exit quarantine centers, Animal disease detection institutes and Hospitals. They are widely used in HBV, HCV, HIV, HINI and SARS quantitative detection. During the covid-19 period, Magen has supplied over 100,000,000 preps of viral kits all over the world.

For more products information, pls visit our website: www.magen-tec.com

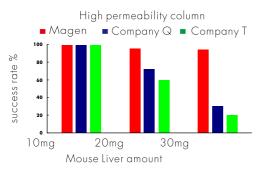


Magen Technology Overview

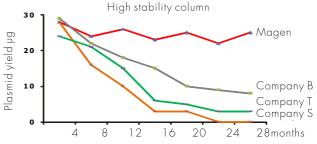
Magen Biotech developed series of sample preservation, transportation and nucleic acid purification technology. It can provide best solutions for various kinds of biological sample's nucleic acid purification. No matter what request you need, you can always find the right products in Magen's product line. Magen kits purification technology includes: HiPure (silica column purification technology), MaxPure (improved silica column purification technology), MagPure (magnetic beads purification technology), AllPure (DNA/RNA/Protein co-isolation technology), RaPure (rapid extraction technology), SolPure (solution purification technology), SafPure (sample transportation and purification), AmPure (Direct PCR technology). This catalogue only introduce some of our HiPure, MagPure, AllPure and SolPure purification products. For products not shown on this catalogue, please contact with our team (info@magen-tec.com).

HiPure - Column Purification Technology

HiPure purification technology uses silica membrane as matrix to change the nucleic acid isolation process from complicated centrifuge operation to simple filtration operation. In condition of high salt concentration, DNA/RNA are adsorbed on the silica membrane, but protein and other impurities are not adsorbed and flow through. Then protein and salt adsorbed on the silica membrane are removed by washing buffer. DNA/RNA washed out by low salt buffer and get purity DNA/RNA at last. HiPure technology greatly save time for nucleic acid isolation, most samples can get high quality DNA/RNA in only 10~20 minutes. In addition, the simplified filtration process greatly improves the stability of experiments in different times.



Comparing Magen, Company Q and T's RNA columns by extracting RNA from 10mg, 20mg and 30mg mouse liver samples. Repeat every testing 10 times and get success rates. Failure test results are caused by blocking of the columns. Results show that Magen RNA column has best permeability and can successfully deal with 30mg samples.



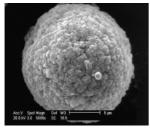
Time for Columns stay in room temperature

Comparing Magen and other 3 companies DNA columns by storing at room temperature for 4-28 months. Testing DNA yield by extracting plasmid DNA with HiPure Plasmid Micro Kit. Results show that Magen DNA column got stable binding ability from 4 to 28 months. And other 3 companies DNA columns binding ability decrease significantly for long time storage.

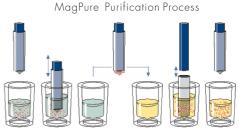
MagPure - Magnetic Particles Purification Technology

MagPure purification technology is specially designed for automatic nucleic acid extraction. It uses superparamagnetic particles (Magnetic Beads) as matrix, isolating DNA/RNA from different samples. DNA/RNA specially adsorbed with silanol or carboxyl groups on the magnetic beads. MagPure kits can be applied on pipetting workstation and automatic nucleic acid extraction machines, it changes DNA/RNA isolation from manual operation to machine automation. This technology greatly improves the accuracy and efficiency of the experiment, and gets more stable results. Magen's MagPure kits advantages:

- 1. Provide different size and functional groups particles for different samples to achieve optimal purification results.
- 2. Develop the best reagents systems and extraction process to minimize manual processing.
- 3. Design the best process and solutions according to the automated extraction platform.



A highly homogeneous carboxyl magnetic bead used for sequencing product recovery



MagPur kits work on KingFisher Machine

Researchers found cell free fetal DNA in plasma and serum of pregnant women's peripheral blood. This makes it possible to detect fetal chromosomal diseases by collecting maternal peripheral blood. Non-Invasive Prenatal DNA Testing (NiPT) is a safe/accurate/fast technology for fetal diseases detection including Down Syndrome, Edwards Syndrome, and Patau Syndrome. Magen R&D department developed different kinds of circulating nucleic acid purification kits for NIPT. We have column method purification kits for different sample size, and magnetic beads method purification kits for manual, pipetting workstation and different kinds of automatic nucleic acid extraction machines.



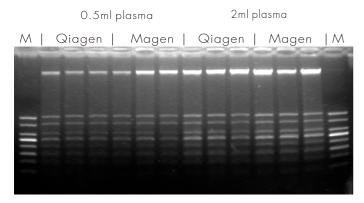


	Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products
	HiPure Circulating Nucleic Acid Micro Kit	D318002 D318003	50 250	•	Circulating DNA from 0.6ml plasma/serum/body	fluids
	HiPure Circulating Nucleic Acid Mini Kit	D318102 D318103	50 250	•	Circulating DNA from 1ml plasma/serum/body fl	uids
Columns	HiPure Circulating DNA Midi Kit C (1~5ml)	D318202C D318203C	10 50	•	Circulating DNA from 1~5ml plasma/serum/bod	y fluids by Vacuum
O	HiPure Circulating DNA Midi Kit D (1~5ml)	D318203D	50	•	Circulating DNA from 1~5ml plasma/serum/bod	y fluids by spin
	HiPure Circulating DNA Kit (1~5ml)	IVD3182	50	•	Circulating DNA from 1~5ml plasma/serum/bod	y fluids by Vacuum Qiagen 55114
	HiPure Circulating DNA&RNA Kit	R431602 R431603	50 250	•	Circulating DNA/RNA all extracted from 1~5ml s	erum/plasma Qiagen 55184
	MagPure Circulating DNA Mini Kit	IVD5432	200	•	Circulating DNA from 0.2~1.2ml plasma/body flu	ids by Magnetic beds
: Beads	MagPure Circulating DNA Maxi Kit	IVD5435	50	•	Circulating DNA from 1~6ml plasma/serum/body flu	ids by Magnetic beads Life A29319
Magenetic Beads	MagPure Circulating DNA Rich Mini Kit	1291750 12917200	50 200	•	Remove DNA fragments >500bp, rich small fragm 0.2~0.6ml plasma/serum	nent cfDNA from
\geq	MagPure Circulating DNA Rich Maxi Kit	1292750 12927200	50 200	•	Remove DNA fragments >500bp, rich small fragm 5ml plasma/serum	nent cfDNA from

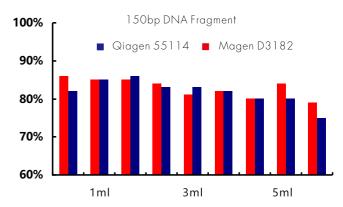
1. HiPure Circulating DNA Midi Kit (D3182)

Hipure Circulating DNA Kits Vs Qiaamp Circulating DNA Kit (55114)

DNA fragment recovery comparison

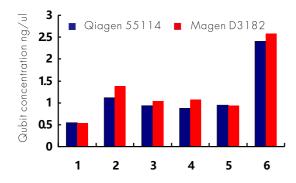


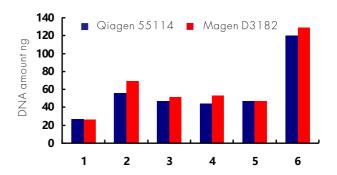
Add100bp DNA Marker into 0.5ml and 2ml pig plasma, extract DNA by HiPure Circulating DNA Midi Kit C (D3182C) and QIAamp Circulating Nucleic Acid Kit (55114), then run DNA on Agarose gel. Results show that two kits get similar DNA yield.



Add 400ng 150bp DNA fragment into 1ml, 3ml and 5ml plasma, extract DNA by Qiagen #55114 and Magen #D3182C, then quantitave DNA by Aligent 2100 and caculate DNA fragment recovery rate. Results show that two kits get similar DNA yield, both are >80%.

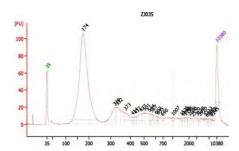
Human plasma DNA extraction comparison

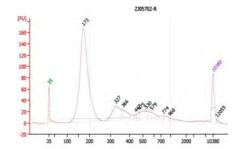


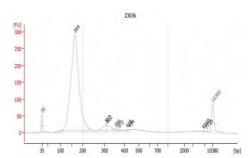


Use Qiagen #55114 and Magen #D3182-03C extracting cfDNA from 6 human plasma samples (4ml). Elute purified DNA by 50ul Buffer TE. Testing DNA concentration and amount by Qubit. Results show that Magen #D3182 gets higher DNA yield than Qiagen #55114.

Aligent 2100 analyze results for CFDNA extracted from 2ml plasma







Use Magen HiPure Circulating DNA Kit C (D3182-03C) extracting cfDNA from 3 human plasma samples (2ml) with vacuum operation. Elute purified cfDNA by 50µl Buffer TE and then analyze DNA by Aligent 2100.

1. HiPure Circulating DNA Midi Kit (D3182)

DNA extraction results of 52 clinical plasma samples (2~6ml)

No.	Plasmo	Conc.	Elute	DNA	No.	Plasma	Conc.	Elute	DNA	No.	Plasma	Conc.	Elute	DNA	No.	Plasmo	Conc.	Elute	DNA
																			ng
1	2	0.54	45	24.2	14	3	29.50	25	737.5	27	4	3.44	12	41.3	40	5	9.87	25	246.8
2	2	0.92	45	41.3	15	3	1.29	25	32.3	28	4.5	27.70	25	692.5	41	5	1.32	25	33.0
3	2	2.32	45	104.4	16	3	2.13	25	53.3	29	4.5	1.63	25	40.8	42	5	1.19	25	29.8
4	2	1.09	45	49.1	17	3	1.21	25	30.3	30	4.5	7.40	25	185.0	43	5	0.98	25	24.5
5	2	1.09	45	49.1	18	3	1.88	25	47.0	31	4.5	5.68	25	142.0	44	5	3.29	25	82.3
6	2	0.37	45	16.5	19	3	1.31	25	32.8	32	4.5	1.74	25	43.5	45	5	3.78	25	94.5
7	2	1.43	45	64.4	20	3.5	1.61	25	40.3	33	4.5	2.66	25	66.5	46	5	2.15	25	53.8
8	2	1.15	45	51.8	21	3.5	0.88	25	22.1	34	5	4.31	25	107.8	47	5	2.34	25	58.5
9	2	0.621	45	27.9	22	3.5	1.18	25	29.5	35	5	16.30	25	407.5	48	5.5	2.85	25	71.3
10	2	1.07	45	48.2	23	4	1.29	25	32.3	36	5	1.63	25	40.8	49	5.5	1.14	25	28.5
11	2	0.60	45	27.1	24	4	2.13	25	53.3	3 <i>7</i>	5	2.03	25	50.8	50	5.5	1.46	25	36.5
12	2	1.69	45	76.05	25	4	1.24	25	31.0	38	5	2.10	25	52.5	51	5.5	2.15	25	53.8
13	2	0.72	45	32.5	26	4	0.55	25	13.7	39	5	0.95	25	23.8	52	6.5	5.06	25	126.5

52 cases using Magen #D3182C extracting circulating DNA from plasma samples (2~6ml), and then quantitate DNA by Qubit. Datas provided by our customers. Magen has dealed with above 100,000 cases on 2ml plasma sample for methylation analysis.

Selection guide for two operations

Centrifuge Operation (D3182D)

- 1. Place Extender Tube (2)/Sealing ring (3)/cfDNA Mini Column (4)/ Collection Tube (5) together and put in 50ml Centrifuge Tube (1).
- 2. Lyse plasma by Buffer ACL and Proteinase K, then mix with Buffer ACB
- 3. Add $10 \sim 15$ ml mixture to Extender Tube and centrifuge for $3 \sim 5$ mins, discard flow-through.
- 4. Remove mini column and elute with mini centrifuge.

This process only need large centrifuge for 50ml tube, do not need vacuum pumping machine

Vacuum Operation (D3182C/IVD3182)

- 1. Place Extender Tube (2)/ CFDNA Column (3)/Vac Connector (4)/ Vacuum Manifold (5) together.
- 2. Lyse plasma by Buffe ACL/ Proteinase K and mix with Buffer ACB.
- 3. Add 20ml mixture to Extender Tube.
- 4. Open Vacuum pump (1) for flitration ultil all mixture complete (5~15min)

This process used vacuum minifold and vacuum pump. Magen vacuum Kits could be used with Magen MagVac 20 Vacuum Manifold System and also Qiagen QIAvac 24 plus vacuum manifold system.





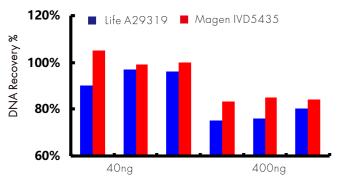
MagVac 20 Vacuum Manifold System

5. Vacuum Pump

2. Extender Tube 3. CFDNA Column 4. Vac Connector

2. MagPure Circulating DNA Maxi Kit---1~8ml Plasma Sample

DNA Fragment recovery comparison



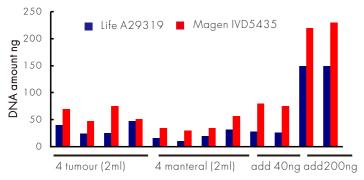
Add 40ng/400ng 200bp DNA fragment into 2ml manternal plasma, extract DNA by Life #A29319 and Magen IVD5435, then analyze DNA yield by Aligent 2100. Results show that Magen kit gets higher recovery (higher fluorescence on 200bp point). Magen kit gets 80% recovery on 400ng DNA fragment and reaches 90~100% on 40ng DNA fragment.

High DNA yield (same copies as circulating DNA)

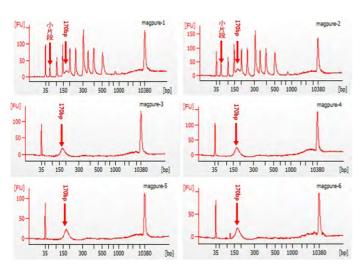
Sample Volume	HBV copies Added	CT value QPCR
200µl	1×10 ³	28.7
200µl	1×10^3	28.5
400µl	1×10 ³	28.4
400µl	1×10 ³	28.3
2ml	1×10^3	28.3
2ml	1×10 ³	28.0
4ml	1×10 ³	28.7
4ml	1×10 ³	28.8

Add 1×10^3 HBV (about 1pg DNA, same copies as circulating DNA) into $200\mu l$, $400\mu l$, 2ml and 4ml manteral plasma sample. Extract DNA by Magen IVD5435, and then run real time PCR by HBV real time PCR Kit (Daan Gene). Results show that Magen #12917PC gets high recovery for different volume of samples. Even for trace amount HBV DNA.

2ml manteral/tumour plasma DNA extraction comperasion



Take 4 tumour/manteral plasma (2ml) samples, and add 40ng/200ng DNA Marker into 2 manteral plasma (2ml) samples. Extract DNA by Life #A29319 and Magen IVD5435, and analyze DNA by Qubit.



Aligent 2100 alalysis data for manteral plasma, and manteral plasma with DNA Marker.

2ml tumour/healthy plasma DNA extraction Result

Sample Type	No.	Plasma (ml)	Elute (µl)	Qubit Conc. ng/μl	DNA ng
Tumour	P-1	2	60	0.795	39.8
Tumour	P-2	2	60	0.469	23.4
Tumour	P-3	2	60	0.340	17.0
Tumour	P-4	2	60	0.191	9.6
Tumour	P-5	2	60	0.271	13.5
Tumour	P-6	2	60	0.947	47.4
Tumour	P-7	2	60	0.330	16.5
Tumour	P-8	2	60	2.508	125.4
Tumour	P-9	2	60	0.488	24.4
Tumour	P-10	2	60	0.657	32.8
Healthy	N-1	2	60	0.168	8.4
Healthy	N-2	2	60	0.974	48.7
Healthy	N-3	2	60	0.198	9.9
Healthy	N-4	2	60	0.310	15.5
Healthy	N-5	2	60	0.287	14.4
Healthy	N-6	2	60	0.343	17.2
Healthy	N-7	2	60	0.191	9.6
Healthy	N-8	2	60	0.185	9.2
Healthy	N-9	2	60	0.284	14.2
Healthy	N-10	2	60	0.168	8.4

Extract DNA from 10 tumour/healthy plasma (2ml) samples by Magen IVD5435. And analyze DNA by Qubit.

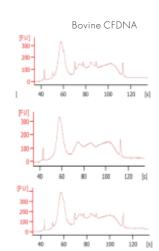
2~6ml plasma sample automatic purification--- KingFisher Flex Extraction Vs Column Extraction

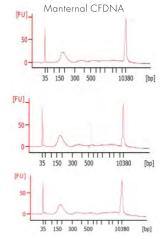
Product	Plasma	Conc.	Elute	Vol.	DNA ng
	2ml	0.575	60µl	55µl	34.5
Column	4ml	0.875	60µl	55µl	52.5
	6ml	1.3	60µl	55µl	<i>7</i> 8
	2ml	0.532	60µl	56µl	31.9
KingFisher Flex	4ml	0.86	60µl	54µl	51.6
	6ml	1.22	60µl	53µl	73.2

Use MagPure Circulating DNA Maxi KF Kit (IVD5435) and HiPure Circulating DNA Midi Kit D (#D3182D) extracting CFDNA from 2ml/4ml /6ml plasma sample and analyze DNA by Qubit. Results show that using #IVD5435 on KingFisher Flex automatic machine gets almost same results with column method (#D3182D). The machine process greatly save time with only 40 mins operation. But results show that #IVD5435 gets lower DNA yield than #D3182D, this is because KingFisher Flex needs Carrier RNA to avoid consumable adsorption.

2~4ml plasma DNA automatic purification by MagRotex 24 Extractor

Sample	Vol.	Manu Conc. ng/ _l		Manu: Conc. ng/µ	
Manternal	2ml	0.96	57.6	0.79	47.4
Manternal	2ml	0.97	58.2	0.78	46.8
Manternal	4ml			1.37	82.2
Manternal	4ml			1.42	85.2
Bovine	2ml	0.312	18.7	0.248	14.8
Bovine	2ml	0.318	19.08	0.273	16.4
Bovine	4ml			0.529	31.7
Bovinel	4ml			0.494	29.6





Use MaPure Circulating DNA Maxi Kit (IVD5435) extracting CFDNA from 2ml/4ml plasma sample. Comparing automatic extraction (Magrotex 24 Extractor) and manual extraction, Quantitate DNA by Qubit (left) and analyze DNA by Aligent 2100 (right). Results show that 2ml and 4ml plasma sample both keep a good linear realationship when using automatic extraction by Spin 24 Extractor. Comparing with manual operation, MagRotex 24 Extractor gets lower DNA yield, this is because not using Carrier RNA.

MagRotex 24 Extractor

MagRotex 24 Extractor uses innovative rotating magnetic beads resuspension technology and independent sample extraction consumables design. It can deal with large samples size (starting sample volume reach 4 ml) and complete 1~24 different nucleic acid samples rapidly at the same time. Independent consumable design ensures the independence of sample processing and avoids waste of consumable. Large touch screen and simple operations, easy to use. DNA is stored in independent elution tubes.

Features

- Large size processing bulk sample volume processing, 0.5~4ml nucleic acid samples
- Rotary suspension innovative rotating magnetic beads resuspension technology, avoid aerosol pollution.
- Independent consumable design one consumable with one sample, separately, avoid cross contamination.
- Safety protection automatic locking door, ensure the operation safety.



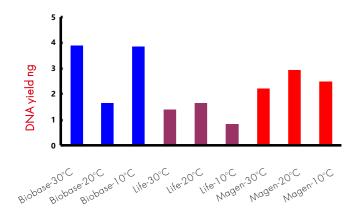
MagRotex 24 Extractor

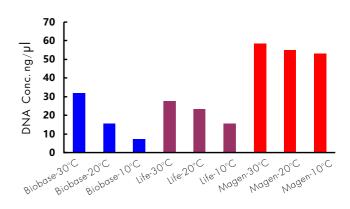


Independent cunsumable

3. MagPure Circulating DNA Mini Kit---NIPT Application (0.2~1.2ml, IVD5432)

200µl manternal plasma extraction comparison (Biobase VS Life A29319 VS Magen IVD5432)



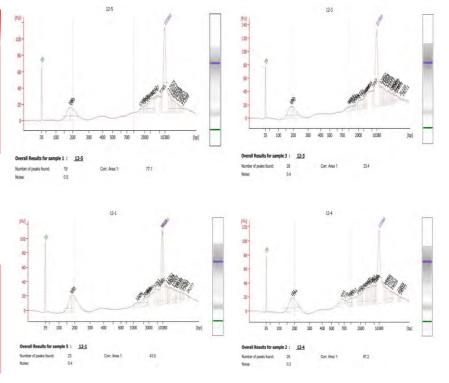


Use Biobase, Life #A29319 and Magen #IVD5432 extracting circulating DNA from 10 pregnant women's plasma sample (200μ I) and operating in different temperatures (10° C/ 20° C/ 30° C), Analyze DNA concentration by Qubit (Figure Left) and quantitate DNA amount by library building (Figure Right). Results show that Magen #IVD5432 gets $12\sim20$ ng DNA from every ml plasma, much higher yield than Life #A29319. And Magen #IVD5432 gets higher DNA library concentration than other two companies. The test operated on Haminlton Pipetting workstation.

CFDNA manual extraction results for 0.3~1.2ml manternal plasma (popular size for NIPT)

Qubit results DNA Conc. DNA Sample Plasma Average 2.0 300 0.40 6.0 2 300 0.40 6.0 2.0 300 7.5 2.5 3 0.50 300 0.37 5.6 1.9 4 300 5 0.42 6.3 2.1 600 0.72 11.5 1.9 1 2 600 0.73 11.6 1.9 3 600 0.74 11.8 2.0 2.2 4 600 0.82 13.1 5 600 0.77 12.3 2.1 1200 1.33 22.6 1.9 2 1200 1.19 20.2 3 1200 1.36 23.1 1.9 4 1200 1.32 22.4 1.9 5 1200 1.57 26.7 2.2





Use MagPure Circulating DNA Mini Kit (#IVD5432) extracting circulating DNA from 5 pregnant women's plasma sample (0.3ml/0.6ml/1.2ml). Elution volume is $15 \sim 17 \mu l$. Results show that Magen #IVD5432 keeps good linear realation with 0.3ml, 0.6ml and 1.2ml plasma sample.

With the rapid development of tumor molecular biology research, collection and storage of fresh tumor samples has become a difficult problem. Formalin-fixed, paraffin-embedded (FFPE) tissue samples, preparing from human surgical tissue samples by fixation with formalin and embedding in paraffin, easily solve this problem. However, extracting DNA/RNA from FFPE samples are not easy, because chemical modifications by forma-ldehyde and fragmentation of the DNA during tissue processing (sampling, fixing, embedding) and storage (humidity, time, temperature) of the samples. Standard DNA/RNA isolation process often result in low DNA/RNA yield or poor performance in downstream applications (e.g., PCR). Magen R&D department has developed a variety of FFPE DNA/RNA extraction products with a special purification system. Magen also develop automatic nucleic acid purification machines going with our reagents.

Product Guide

Product Name	Cat #	Preps	Price (\$)	Feature Substitute Pr	roducts
LUD FEDE DATA IVI	D312602	50	•	Isolation Total Nucleic acid from FFPE sections and Tissue	
HIPUre FFPE DINA KIT	D312603	250		Qiagen S	56404
HiPure FFPE DNA Kit	IVD3126	100	•	Isolation Total DNA from FFPE sections and tissue	
LI:D EEDE DNIA V:4	R414302	50	•	Isolation total RNA from FFPE tissue and section samples	
MIPUTE FFFE KINA NIT	R414303	250			
LID. CEDE DNIA VIA	R414402	50	•	Isolation total RNA from FFPE tissue and section samples (with D	Onase)
TIIFUIE TIFL KIVA NII	R414403	250		Qiagen 7	73504
HiPure FFPE DNA Kit	IVD4144	50	•	Isolation total RNA from FFPE tissue and section samples (with D	Onase)
HiPure FFPE DNA/RNA Kit	IVD5116	50		Co-isolation RNA/DNA from a singal FFPE sample Qiagen 8	80234
AA D FEDE DATA IV	D632301B	48	•	Isolation total DNA from FFPE using high bind beads	
MagPure FFPE DINA Kit	D632302B	96		Omega N	16958
AA D FEDE DATA KUULU D	D632301D	48	•	Isolation high pure total DNA from FFPE using high bind bed	ıds
MagPure FFPE DINA Kit (High Pure)	D632302D	96			
MagPure FFPE RNA Kit	IVD3022	200	•	Isolation total RNA from FFPE tissue	
MagPure FFPE DNA/RNA Kit	IVD3026	200	•	Co-isolation RNA and DNA from a single FFPE sections and tiss	sue
AA. D FEDE DNIA /DNIA I/J	R632701	48	•	Co-isolation RNA and DNA from a single FFPE sections and	tissue
Magrule FFFE DINA/ KINA NI	R632702	96		Life: AX	31881
	R632703	5 x 96			
	HiPure FFPE DNA Kit HiPure FFPE DNA Kit HiPure FFPE RNA Kit HiPure FFPE RNA Kit HiPure FFPE DNA Kit HiPure FFPE DNA Kit MagPure FFPE DNA Kit MagPure FFPE DNA Kit (High Pure) MagPure FFPE RNA Kit	HiPure FFPE DNA Kit D312602 D312603 HiPure FFPE DNA Kit HiPure FFPE DNA Kit HiPure FFPE RNA Kit R414302 R414303 R414402 R414403 HiPure FFPE DNA Kit HiPure FFPE DNA Kit WD4144 HiPure FFPE DNA/RNA Kit No5116 MagPure FFPE DNA Kit (High Pure) D632301B D632302B MagPure FFPE DNA Kit (High Pure) D632302D MagPure FFPE DNA/RNA Kit No3022 MagPure FFPE DNA/RNA Kit No3026 MagPure FFPE DNA/RNA Kit R632701 R632702	HiPure FFPE DNA Kit D312602 50 HiPure FFPE DNA Kit IVD3126 100 HiPure FFPE RNA Kit R414302 50 R414403 250 R414403 250	HiPure FFPE DNA Kit D312602 50 D312603 250 HiPure FFPE DNA Kit IVD3126 100 R414302 50 R414402 50 R414402 50 R414403 250 HiPure FFPE DNA Kit IVD4144 50 HiPure FFPE DNA/RNA Kit MagPure FFPE DNA Kit IVD5116 50 MagPure FFPE DNA Kit IVD5116 50 MagPure FFPE DNA Kit IVD5116 48 D632302B 96 MagPure FFPE DNA Kit IVD3022 200 MagPure FFPE DNA/RNA Kit IVD3026 200 MagPure FFPE DNA/RNA Kit IVD3026 200 MagPure FFPE DNA/RNA Kit R632701 48 R632702 96	HiPure FFPE DNA Kit D312602 50 Isolation Total Nucleic acid from FFPE sections and Tissue Qiagen Strict HiPure FFPE DNA Kit IVD3126 100 Isolation Total DNA from FFPE sections and tissue HiPure FFPE RNA Kit R414302 50 Isolation total RNA from FFPE tissue and section samples HiPure FFPE RNA Kit R414402 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE tissue and section samples (with D41444 50 Isolation total RNA from FFPE using high bind beads Qiagen S4144002 Omega N444002 Omega N444002

FFPE DNA Automatic Isolation-MagMix 48 Extractor

MagMix 48 Extractor uses magnetic bar flapping technology, extracting nucleic acid automatically by program settings for different samples. Including process for lysing samples, nucleic acid binding on magnetic beads, eluting, magnetic beads transfer and isolation. It can process 48(3x16) nucleic acid samples (Tissue, Plant, FFPE, Food, Microorganism, Virus, ect.) rapidly at the same time. This machine is widely used in clinical testing, routine scientific research, genomics analysis, disease control system,

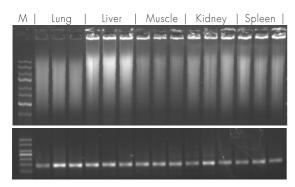


MagMix 48

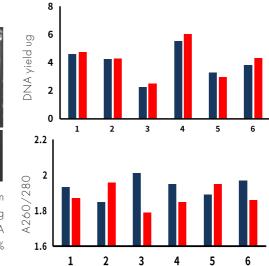
- Double-hole lysing: sample size reach 600µl
- High-throughput: handle 48 samples at a time

- Simple operation: large screen, easy to use
- Complete mix: magnetic bar flapping technology

HiPure FFPE DNA Kit (D3126) -- Extract DNA from Formalin-fixed, paraffin-embedded (FFPE) tissue samples



Use HiPue FFPE DNA Kit extracting 5 different chicken FFPE tisuse (5mg), then take 10% purified DNA running on 1% agarose gel (figure up). Take 1.5% purified DNA running on PCR, amplifying B-actin gene, then run on 1% agarose gel (figure down).



6 clinical FFPE tissue samples, take 5 sections from each sample. Use HiPure FFPE DNA Kit (D3126) and QIAamp FFPE DNA Kit (D56404) extracting DNA, and elute with 50ul Elution Buffer. Analyze DNA yield by Nanodrop 2000. Results show that Magen #D3126 and Qiagen #D56404 get similar DNA yield and purity.

HiPure FFPE RNA Plus Kit(R4144) Vs Qiagen RNeasy FFPE RNA Kit (73504)

				Nanodro	p Results	Qul	oit Results	
Sample	Sections	Company	Conc.(ng/μ	l) A260/28	0 A260/230	Qubit(ng/μl)		DNA(μg)
1	2	Magen	332.4	1.8	1.2	65.2	50	3.26
	2	Qiagen	123.1	1.7	1.3	30.5	50	1.53
2	2	Magen	454.8	2.0	1.6	274	50	13.7
	2	Qiagen	343	2.1	2.1	183	50	9.2
3	2	Magen	491.3	2.0	1.2	252	50	12.6
	2	Qiagen	448	1.9	1.1	300	50	15
4	2	Magen	214.6	2.0	1.9	56.8	50	2.8
	2	Qiagen	156.7	1.9	1.9	50.1	50	2.5
5	2	Magen	783.7	1.9	1.9	362	50	18.1
	2	Qiagen	655.3	1.9	2.2	315	50	15.8
6	2	Magen	140.8	1.9	1.6	67.4	50	3.4
	2	Qiagen	143.5	1.8	2.0	72.3	50	3.6

6 Lung Cancer FFPE samples, use Magen #R4144 and Qiagen #73504 extracting RNA. Test RNA by Nanodrop and Qubit. Results show that Magne kit gets higher yield than Qiagen kit by both OD and Qubit data. OD 260/280 and 260/230 data show that two kits have same RNA purity.

FFPE DNA/RNA amplifying comparision (Magen IVD5116 VS Qiagen #80234)

			Sample	1	Sample :	2	Sample 3	3
Template	Size	Method	Magen	Qiagen	Magen	Qiagen	Magen	Qiagen
ffpe dna	100bp	PCR	24.5	25.3	24.0	24.2	29.9	31.0
ffpe dna	200bp	PCR	25.6	25.4	23.8	23.5	29.8	30.7
ffpe dna	300bp	PCR	25.0	26.5	24.6	25.1	33.1	33.2
ffpe rna	150bp	RT-PCR	22.9	22.2	22.1	21.8	23.0	23.8

Take 3 FFPE tissue samples, Co-Isolating DNA and RNA by Magen IVD5116 and Qiagen #80234. Analyze DNA by Real-time PCR on 100bp, 200bp, and 300bp. Anzlyze RNA by Real-time RT-PCR. Datas show that Magen kits and Qiagen kits get similar results.

MagPure FFPE DNA Kit (D6323B) VS Qiagen #56404

	FFPE	Nano	Qubit	DNA	A260/	DNA
Kits	Sections	ng/µl	ng/μl	ng	280	quality
Magen	2	35.5	9.18	367	1.78	В
Qiagen	2	14.5	2.18	87	1.83	В
Magen	2	167.4	49	1960	1.83	В
Qiagen	2	61.5	12.6	504	1.83	В
Magen	2	100.3	30.2	1208	1.81	В
Qiagen	2	53. <i>7</i>	11.3	452	1.81	В
Magen	2	39.5	12.4	496	1.79	В
Qiagen	2	13.8	1.99	79	1.73	В
Magen	2	64.7	25	1250	1.71	2438bp
Qiagen	2	127.4	16.4	656	1.85	2345bp
Magen	2	74.1	24.5	1225	2.11	2117bp
Qiagen	2	57.7	12.9	516	1.86	1876bp
Magen	2	17.6	4.08	204	1.72	1803bp
Qiagen	2	67.1	4.64	185	1.63	1604bp
Magen	2	17.6	6.12	306	1.77	2344bp
Qiagen	2	80.6	12	480	1.82	811bp

Use Magen #D6323B and Qiagen #56404 extracting DNA from different FFPE samples (2 sections each). Analyze DNA by Nanodrop and Qubit. OD and Qubit datas show that Magen kit gets higher DNA yield and purity than Qiagen kit. DNA fragments quality from FFPE are similar for both kits. (This test is provided by two famous biology companies using Magen kits.)

FFPE DNA extraction
Cross contamination test for MagMix 48 Extractor

96 Plat	e Sampl	e SRY	96 Plat	e Sampl	e SRY
hole	type	Gene	hole	type	Gene
A1	Male	CT: 22.7	A7	Male	CT: 23.6
В1	Female	CT: no	B7	Female	CT: no
C1	Male	CT: 23.2	C7	Male	CT: 18.9
D1	Female	CT: no	D7	Female	CT: no
E1	Male	CT: 25.3	E7	Male	CT: 24.8
F1	Female	CT: no	F7	Female	CT: no
Gl	Male	CT: 23.2	G7	Male	CT: 19.6
Н1	Female	CT: no	H7	Female	CT: no

Take 8 male and female tumour FFPE tissue samples (2 sections each), extract DNA by MagPure FFPE DNA Kit (D6323B) and MagMix 32 Extractor for automatic nucleic acid extraction. Cross adding male and female samples on the machine. Amply SRY gene for the DNA by real-time PCR. PCR results show no amplification on femal samples. So MagMix 32 Extractor keeps no cross contamination for different samples.

Clinical samples extraction results by MagPure FFPE DNA/RNA Kit (R6327)

sa	mple		Conc.	A260/	Qubit	Fragment	sam	ple		Conc.	A260/	Qubit	Fragment
No.	Qty		ng/μl	A280	ng	bp	No.	Qty		ng/μl	A280	ng	bp
1	1	DNA	28.4	1.8	443	7500-15000	2.2	,	DNA	29	1.8	520	15000
l	ı	RNA	18.7	2.0	440		11	ı	rna	10.4	2.1	97	
0	3	DNA	6.7	1.9	3 <i>7</i>	7500-15000	1.0	0	DNA	68	1.8	1965	250-5000
2	3	rna	5.1	2.1	61		12	3	rna	64.5	1.9	1188	
0	4	DNA	18.1	2.0	280	5000-15000	1.0	0	DNA	56.4	1.8	2513	15000
3	4	rna	9	2.1	213		13	3	rna	78.7	2.0	2150	
4	6	DNA	21.8	1.8	348	5000-15000	14	4	DNA	61.2	1.8	547	250-7500
4	O	rna	11.9	2.1	272		14	4	rna	220.8	2.0	3500	
5	7	DNA	19.4	1.8	307	5000-15000	15	1	DNA	49.8	1.8	347	1000-15000
)	/	rna	8.3	2.0	204		13	4	rna	8.8	1.8	162	
6	8	DNA	36.2	1.8	670	7500-15000	16	4	DNA	202.4	1.8	3325	2500-15000
O	O	rna	25.4	2.1	492		10	4	rna	78	1.8	3430	
7	1	DNA	44	1.8	642	2000-15000	17	5	DNA	220.7	1.9	2933	5000-15000
/	1	rna	22.9	2.0	480		17	5	rna	82.5	2.0	1725	
8	1	DNA	103.4	1.8	1450	5000-15000	18	7	DNA	40.3	1.8	2261	15000
Ö	1	rna	11.7	2.3	85		18	/	rna	18.2	1.9	347	
9	1	DNA	55	1.9	2450	5000-15000	19	8	DNA	20.3	1.9	233.25	5000-15000
A	1	rna	56.7	1.9	875		19	O	rna	6.8	2.1	137	
1.0	1	DNA	29.4	1.9	1428	15000	20	9	DNA	12.2	1.8	66	5000-15000
10	1	rna	30.5	2.1	798		20	9	rna	3.1	2.3	<i>7</i> 3	

Different clinical FFPE samples extracted by MagPure FFPE DNA/RNA Kit (R6327), and analyze by Nanodrop and Qubit.

Molecular detection and diagnosis has become a mainstream trend as fast development of molecular biology. Genomic DNA/RNA extractions from different Tissue/Cells/Blood samples uses widely in research and diagnostic areas. Magen R&D department developed various products from the previous samples to subsequen extractions of DNA/RNA. We supply a complete set of solutions for Tissue/Cells/Blood DNA/RNA extraction includes column extraction, automatic extraction and solutions design for high-throughput sequencing genomic extraction.

Product Guide

Columns

	Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products
	LID Het I DNIA K'A	D301802	50	•	Isolation total DNA from tissue / blood / b	oody fluid / swab /dry
	HiPure Universal DNA Kit	D301803	250	b	lood spots	
	HiPure Universal DNA Kit	IVD3018	100	• k	, Isolation total DNA from tissue / blood / b blood spots	oody fluid / swab /dry
	HiPure Tissue&Blood DNA Midi Kit	D311302	20	•	Isolation total DNA from 2ml blood and 20	Omg tissue
	Thi die 1330exblood bi v/ (Wildi Kii	D311303	100			Qiagen51183
rsa	HiPure Tissue&Blood DNA Maxi Kit	D311502	10	•	Isolation total DNA from 10ml blood and 1	g tissue
Universal	THE DIE HISSUEGODIOOG DIAM MUXIMI	D311503	50			Qiagen51192
_	HiPure Tissue&Blood DNA 96 Kit	D311702	1 x 96		Isolation total DNA from 200µl blood, tissu	ue, culture cells, swab using
	THI OIC TISSICADIOCA DI VICTO NII	D311703	4 x 96	9	6 well bind plate	Qiagen69581
	HiPure DNA Micro Kit	D312502	50	•	Isolation total DNA from 1-10 μ l blood, <2	mg tissue and other samples
	THI DIE DINA MICIO NI	D312503	250			Qiagen56304
	HiPure Universal RNA Kit	R413002	50		Isolation total RNA from 100mg lipid tissue	e, tissue, cell, plant, body
		R413003	250	flu	uids using columns and MagZol reagent	Qiagen74804
	LID Dl J. DNIA AA: K'i	D311102	50		Isolation total DNA from 200µl whole bloo	d,buffy coat,body fluids
S	HiPure Blood DNA Mini Kit	D311103	250			Qiagen51104
Blood/Body fluids	HiPure Blood RNA Mini Kit	R416102	50			
Body		R416103	250	•	Isolation total RNA from 1-1.5ml whole blo	ood Qiagen52304
/po		R416302	50			
Blo	HiPure Liquid RNA (miRNA) Kit	R416303	250	•	' Isolation total RNA from 0.25ml body fluids	Qiagen217184
		D416802	10			
	HiPure Paxigene Blood RNA Kit	D416803	50	•	Isolation total RNA from Paxigene tubes	Qiagen762164
	HiPure Tissue DNA Kit	D312102	50	•	Isolation total DNA from 30mg tissue, cultu	re cells, FTA card
	THE HISSUE DINA KII	D312103	250			Qiagen51304
_S	HiPure Total RNA Kit	R401102	50	•	Isolation total RNA from 20mg tissue, 150	mg plant, 5 x 10^6 cell
/Ce	i iii die idiai ki w k ikii	R401103	250	U	sing one column	Qiagen74104
Tissue/Cells		R411102	50	•	Isolation total RNA from 20mg tissue, 150	mg plant, 5 x 10^6 cell
Ë	HiPure Total RNA Plus Kit	R411103	250		sing two column (gDNA removed column)	Qiagen74134
	HiPure Total RNA Kit	IVD4121	50		Isolation total RNA (miRNA) from tissue, cel	l using two columns and

Product Guide

Magnetic beads

	Product Name	Cat #	Preps	Price (\$)	Feature Substitute Products
	MagPure DNA Micro Kit	IVD3101	200	•	Isolation total DNA from 1-100µl blood, FFPE, tissue and other samples
Universal	MagPure Universal DNA Kit	IVD3102	200	•	Isolation total DNA from blood, buffy coat, tissue and other samples
	MagPure Universal RNA Kit	IVD3020	200	•	Isolation total RNA from blood/tissue/cells using magnetic beads
		D631001	48	•	Isolation total DNA from 200µl whole blood, buffy coat, body fluids
	MagPure Fast Blood DNA Kit	D631002	96		
g		D631003	480		
Blood/Body fluids		D631101	48	•	Isolation total DNA from 200µl whole blood, buffy coat, body fluids
Body	MagPure Blood DNA Kit	D631102	96		Qiagen940054
/poo		D631103	480		
Blo		D661101	48	•	Isolation total RNA from 200~300µl blood, buffy coat, body fluids
	MagPure Blood RNA Kit	D661102	96		
		D661103	480		
<u>s</u>					
Tissue/Cells		D662201	48	•	Isolation total RNA from tissue and cells
sue/	MagPure Total RNA Kit	D662202	96		
Tis.		D662203	5 x 96		

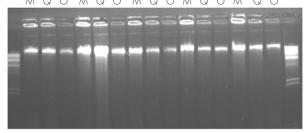
Purchase Guide

Name	CAT NO	Whole blood Sample amount	Leukocyte protocol*	Column type	Elution volume	Average yield (Whole blood)	Time p€ run
HiPure Blood DNA Mini Kit	D3111	10-250µl	1 ml	1.5ml column	30~100µl	5-9µg/200µl	25 min
HiPure Tissue& Blood DNA Midi Kit	D3113	0.2-2ml	1 Oml	15ml column	0.5~1.0ml	20-40µg/1ml	45 min
HiPure Tissue& Blood DNA Maxi Kit	D3115	3 -10ml	1 Oml	50ml column	1~2ml	20-40µg/1ml	45 min
HiPure Tissue& Blood DNA 96 Kit	D311 <i>7</i>	1-200µl	1 ml	96 well plate	100~150µl	3-8µg/200µl	70 min

[•] Note: Leukocyte protocol can be used when large volume whole blood samples need to be processed. Whole blood was treated with red blood cell lysate, and white blood cells were obtained by centrifugation before extraction

HiPure Universal DNA Kit (D3018) comparing with other brands

Sample 1 Sample 2 Sample 3 Sample 4 Sample 5 M Q O M Q O M Q O M Q O M Q O



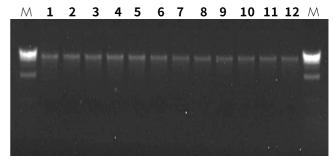
Use Magen HiPure Universal DNA Kit (D3018), Qiagen Kit and Omega Kit extracting 5 fresh human blood samples (200µl). Take 5% genomic DNA analyzing on 0.8% agarose gel. Results show that Magen kit get higher DNA yield.

Test results for HiPure Blood DNA Midi Kit(D3113)

Blood	A260/280	A260/230	Yield(μg)
2 ml	1.82	1.92	60.9
2 ml	1.86	2.16	60.6
2 ml	1.92	1.99	38.9
2 ml	1.90	1.91	41.9
2 ml	1.78	2.08	45.8
2 ml	1.88	2.28	46.8
2 ml	1.82	2.12	45.1
2 ml	1.83	2.33	50.6

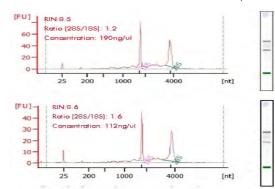
Use HiPure Blood DNA Midi Kit (D3113) extract 10 anticoagulant blood (2ml), and analyze DNA quality by Thermo Nanodrop 2000. Results show Magen kit gets high purity and high yield DNA from blood.

Test results for HiPure DNA Micro Kit (D3125)(10µl blood)



Use HiPure DNA Micro Kit extracting 10 fresh human blood samples($10\mu I$). Take 50% purified DNA analyzing on 0.8% agarose gel. Results show that Magen kit gets stable and high yield DNA for micro size blood samples.

Test results for HiPure PX Blood RNA Kit(R4168)



Take 2 fresh blood samples (2ml), store in Paxigene Tube (Qiagen) for one week, then extract RNA by HiPure PX Blood RNA Kit. And analyze RNA quality by Aligent 2100. Results show Magen kit get high integrality of RNA from Paxigene tube.

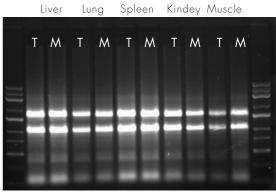
HiPure Universal RNA Mini Kit (R4130) & MagZol Reagent (R4801) High purity total RNA extraction kit and reagent

RNA extraction results for different clinical samples

Sample	RNA µg	Conc µg/µl	RIN	28S/18S
Heart vales 1	1.52	38	8.0	1.9
Heart vales 2	2.42	80	7.4	1.3
Mesentery 1	4.13	129	8.1	1.8
Mesentery 2	0.73	23	8.2	1.6
Leaf fat 1	0.93	32	8.3	1.5
Leaf fat 2	1.23	41	8.3	1.5
Liver 1	31	1203	8.3	1.5
Liver 2	42	1158	8.3	1.5
Kidney 1	12	470	8.9	1.8
Kidney 2	10.8	401	9.1	1.6
Intestine 1	8.7	134	8.7	1.6
Intestine 2	8.9	178	8.9	1.6

Use HiPure Universal RNA Kit (R4130) extrating total RNA from 6 different clinical tissue samples. Quantitate RNA by Thermo Nanodrop 2000 and analyze RNA integrality by Aligent 2100.

MagZol Reagent Vs Trizol Reagent



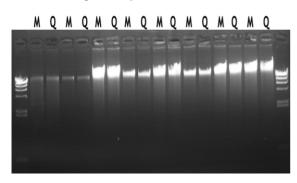
T: Trizol (Life company) M: Magzol Reagent

Use MagZol Reagent (R4801) and Life Trizol Reagent (15596026) extracting RNA from 5 different tissues of mouse. Take 1% RNA analyzing on 1% agarose gel. Results show that two reagents get smiliar RNA yield.

MagPure Universal DNA Kit (IVD3102)

Extract DNA from tissue/cells/blood/saliva samples by magnetic beads

Blood DNA extraction-- MagPure Universal DNA Kit Vs Qiagen BioSprint Blood DNA Kit



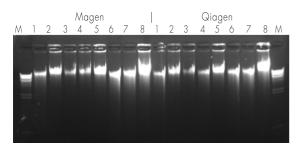
Use MagPure Universal DNA Kit and BioSprint Blood DNA Kit(Qiagen) extracting 8 blood samples (200ul). Take 5% DNA analyze on 0.8% agarose gel. Machine used: KingFisher Flex

Dry blood spot DNA extraction results Magen(IVD3102) Vs Tiangen (DP344)

		Qubit		Na	nodrop	
Company	Blood spot 5mm	Conc ng/μl	Conc ng/μl	A260/ A280	A260/ A230	DNA (ng)
Tiangen	1 pcs	5.3	15.2	1.6	0.7	265
Tiangen	1 pcs	6.8	14.6	1.5	0.8	340
Tiangen	1 pcs	6.4	16.0	1.6	1.1	320
Tiangen	1 pcs	6.5	17.2	2.0	1.1	325
Magen	1 pcs	8.4	11.0	1.8	1.4	420
Magen	1 pcs	8.4	10.6	1.8	1.5	420
Magen	1 pcs	8.6	10.6	1.8	1.5	430
Magen	1 pcs	9.3	10.9	1.8	1.5	465

Take 8 pcs of 5mm dry blood spots (about 5ul blood/pcs), extracting DNA by MagPure Universal DNA Kit and Tiagen kit. And analyze DNA by Nanodrop and Qubit.

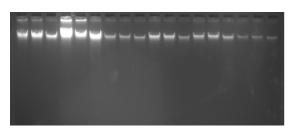
Tissue DNA extraction MagPure Universal DNA Kit Vs Qiagen Biosprint Tissue DNA Kit



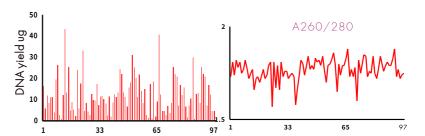
Use MagPure Universal DNA Kit and BioSprint Tissue DNA Kit (Qiagen) extracting DNA from 8 different tissues of mouse (10mg). Take 5% DNA analyzing on 0.8% agarose. Extraction machine: KingFisher Flex 1: ear, 2: kidney, 3:skin, 4: tail, 5: liver, 6: spleen, 7: heart, 8:lung

96 pig tail samples extracted by MagPure Universal DNA Kit, and analyze DNA on Nanodrop. In the results, 80% samples get DNA yield above 10µg, and about 5% samples get 3~10µg. 95% DNA A260/280: 1.75~1.90. A260/230: 1.4~2.2. 100% success for downstream applications. Extraction machine: KingFisher Flex

Salive DNA extraction -- flexible sample size, wide use



18 fresh salive samples (300µl include storage buffer) extract DNA by MagPure Universal DNA Kit. And take 5% DNA analyze on 0.8% agarose gel. Extraction machine: KingFisher Flex



96 salive samples (300µl include storage buffer) store for 2 months, extract DNA by MagPure Universal DNA Kit on KingFisher Flex. And anzlyze DNA quality by Nanodrop. In the results, 80% samples get DNA yield above $5\mu g$, and 5% samples get $0.5\sim1ug$. 95% DNA A260/280: $1.71\sim1.85$. About $2\sim5\%$ DNA A260/280 < 1.7.

Magen supply two series of viral/pathogen nucleic acid extraction kits, HiPure and MagPure. HiPure Viral Nucleic Acid Kits based on silica spin column technology, extract viral/pathogen DNA/RNA from plasma, serum, non-cells viral, ect biology samples rapidly. Users can get DNA/RNA from different samples in 30 min. Process contains lysis, column combining, elution, and at last get DNA/RNA by nuclease-free water elution.

MagPure viral/pathogen nucleic acid kit uses magnetic beads technology getting viral/pathogen DNA/RNA from different source of biology samples in high-throughput. It can be used with both manual operation and automatic extraction workstation like BeckMek Tican, Hamilton, Cliper, Abbott M2000, Etc. Magen also design pre-mixed reagent kits specially for KingFisher and Magen automatic extraction machines. During covid-19, Magen had supplied **over 100 million preps** viral kits all over the world, which manifested the reliability and stability of the product.

Product Guide

	Product Name	Cat #	Preps	Price (\$)	Feature Substitute Products
	HiPure Pathongen DNA/RNA Kit	IVD4179	50		Extract Pathogen RNA/DNA from 1 ml whole blood, plasma,etc. for mNGS downstream application, remove host background nucleic acid.
Column	HiPure Viral RNA Kit	R417102 R417103	50 250		Extract viral RNA from 140µl non-cell/low cell content biological samples such as serum and plasma Qiagen52904
J _O	HiPure Viral RNA/DNA Kit	IVD4173	100		Extract viral RNA/DNA from 200µl non-cell/low cell content biological samples such as serum and plasma Qiagen 57704
	HiPure Viral RNA Kit	IVD4175	100		Papid Extract viral RNA/DNA from 200µl non-cell/low cell content biological samples such as serum and plasma
	MagPure Viral DNA/RNA Kit	IVD5412	200		Extract viral DNA/RNA from 200µl non-cell/low cell content biological samples such as serum and plasma by magnetic beads Life:Am18365
ads	MagPure Pathongen DNA/RNA Kit	IVD6672	200		Extract total pathogen from non-cell/low cell content biological samples for PCR downstream application Life: A36716
Magnetic Beads	MagPure Pathongen DNA/RNA Kit B (mNGS)	R667202B	96		Extract total pathogen from 0.5ml non-cell/low cell content biological samples for mNGS application, remove host background nucleic acid.
W .	MagPure Pathongen DNA/RNA Kit C (mNGS)	R667202C	96		Extract total pathogen from 0.5-1.5ml biological samples such as whole blood, body fluid, tissue homogenate. for mNGS application, remove host background nucleic acid.
	MagPure Viral DNA/RNA Maxi Kit	R666801	48		Extract viral DNA/RNA from 2-4ml non-cell/low cell content biological samples such as serum and plasma. Magnetic Kit for Blood Screening.
Precast Kit	MagPure Viral DNA/RNA Kit	IVD5412-F-9	96 96		▶ Pre-packed Kit for 96 channel machine (Kingfisher Flex,MagMix 96)
Ргес	MagPure Viral DNA/RNA Kit	IVD5412-TL-	-96 96	•	Pre-packed Kit for 32/48 channel machine (MagMix 32/48)

Virus Nucleic Acid Isolation Automatic Solution: MagMix 32 Extractor

MagMix 32 Extractor uses magnetic bar flapping and transferring technology, extracting nucleic acid automatically by program settings for different samples. Including process for lysing samples, nucleic acid binding on magnetic beads, eluting, magnetic beads transfer and isolation. It can process 1-32 nucleic acid samples (Tissue, Plant, Blood, Body fluid, Food, Pathogenic Microorganism, ect.) rapidly at the same time. This machine is widely used in clinical testing, routine scientific research, genomics analysis, disease control system, food safety inspection, forensic identification, ect.

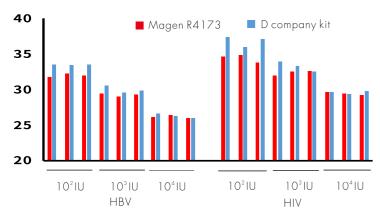




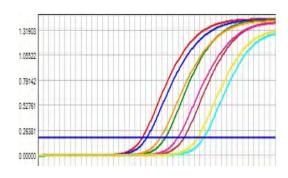
MagMix 32 Extractor

Pre-mixed reagents, only need to add sample

HiPure Viral DNA/RNA Kit (R4173) Column Kits



Add 10°IU, 10°IU, 10°IU HBV or HIV viral into 3 negetive blood samples, extract viral DNA/RNA by Magen HiPure Viral DNA/RNA Spin Kit and D company kit. Then analyze DNA/RNA by real-time PCR with Daan company virus detection kit. Test result show that Magen kit has lower CT value than D company. Magen kit gets higher DNA/RNA yield.



Take 4 gradient HCV blood samples (10^2IU , 10^3IU , 10^4IU and 10^5IU), extract nucleic acid by Magen HiPure Viral DNA/RNA Kit and D company kit. Then analyze extracted nucleic acid by real-time PCR with Daan copmany virus detection kit. Test results show that Magen kit has low CT value than D company. Magen kit gets higher DNA/RNA yield.

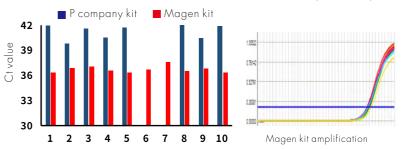
MagPure Viral DNA/RNA Kit (IVD5412) Magnetic Kits

MagPure Viral DNA/RNA Kit VS Roche COBAS

Sample	Magen	Roche
1	97600	32650
2	12200	3198
3	12100	3473
4	non	non
HBV c	quantitative te:	st results

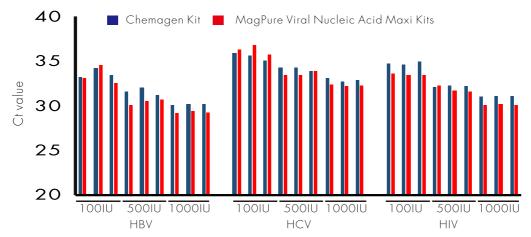
Use Magen MagPure Viral DNA/RNA Kit and Roche COBAS extract DNA/RNA from 4 HBV samples (0.2ml). Then analyze Vial Load by real-time PCR with Daan company HBV detection kit. Results show Magen kit has higher Viral Load than Roche, Magen kit gets higher DNA/RNA yield.

Detection for low virus contration (50IU/ml)



Take 200ul low copy HBV smaple (50IU/ml), extract viral nucleic acid by Magen MagPure Viral DNA/RNA Kit and P company kit, and repeat 10 times. Then analyze viral load by Promega HBV detection Kit. Magen get 100% success on 10 samples, repeatability (ct value: CV%=1.4%, concentration: CV%=5.17%). P company get about 70% success, repeatability (ct value: CV%=2.14%, concentration: CV%=15.0%).

MagPure Viral Nucleic Acid Maxi Kit (R6668) Magnetic Kits for Blood Screening

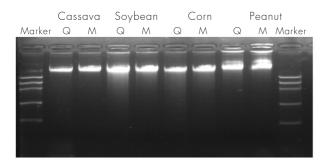


Add 100IU, 500IU and 1000IU of HBV/HCV/HIV into 9 negative blood samples (2.4ml). Use Magen MagPure Viral Nucleic Acid Maxi Kit and Chemagen Viral Nucleic Acid Maxi Kit extract viral nucleic acid on Da3300 platform. Then detect viral nucleic acid by Real-time PCR with Daan company HBV, HCV, HIV detection kits. Test results show Magen kit has lower CT value than Chemagen kit. So Magen kit has higher nucleic acid yield.

Molecular plant breeding technology, select plant traits gene or genotype directly by nucleic acid, combine phenotype and genotype section, make efficient combination and directly selection of genome. This technology greatly improves the efficiency and accuracy of breeding. Magen has developed various products for plant DNA/RNA extraction. Safe plant DNA/RNA extraction kit (non phenol chloroform extraction), general plant DNA/RNA extraction kit for complicated samples such as polysaccharide polyphenol, customized magnetic beads kits (MagPure) suitable for Flap 32/48, KingFisher, ect automatic nucleic acid purification platform. Magen Plant DNA/RNA Extraction kits are widely used for conventional plant, commercial crops, seeds DNA/RNA extractions.

HP Plant DNA Maxi Kit SF Plant DNA Kit SF Plant DNA 96 Kit	D316302 D316303 D316402 D316403 D316702	10 50 50 250	 Isolation total DNA from 3g plant and fungal tissure Isolation total DNA from 100mg simple plant with 	
SF Plant DNA Kit SF Plant DNA 96 Kit	D316402 D316403	50	● Isolation total DNA from 100mg simple plant with	out chloroform
SF Plant DNA 96 Kit	D316702			Qiagen69104
	D316703	4x96 20x96	 Isolation total DNA from 50mg simple plant using without chloroform 	96 well bind plate Qiagen69181
Plant DNA Mini Kit	D318702 D318703	50 250	 Isolation total DNA from 150mg plant and fungal 	fissue
Fruit RNA Kit	R401402	50 250	• Isolation total RNA from 150mg fruit or seed using	pPlantzol reagent
Plant RNA Kit	R415102 R415103	50 250	 Isolation total RNA from 150mg plant using two a (gDNA removed column) 	columns Qiagen74904
Plant RNA Midi Kit	R415202 R415203	20 100	 Isolation total RNA from 1g plant using two Midi (gDNA removed column) 	columns
	D635101	48		
		96 5x96	 Isolation total DNA from 50-100mg plant, fungal 	tissue
		48 96		plant (tender leaf)
		5x96 48		
	D664102	96	 Isolation total RNA from 50mg plant using magne 	tic particles
	e Plant DNA Kit e Seed DNA Kit	D635103 D635201 D635202 D635203 D664101	D635102 96 D635103 5x96 D635201 48 D635202 96 D635203 5x96 D635203 5x96 D664101 48	Plant DNA Kit D635102 96 D635103 5x96 D635201 48 D635202 96 D635202 96 D635203 5x96 D635203 D735203 D735

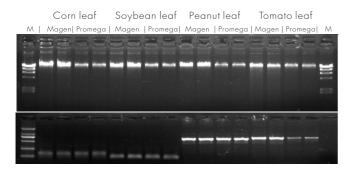
HiPure SF Plant DNA Kit (D3164) Vs Qiaamp DNeasy Plant Kit (69104)

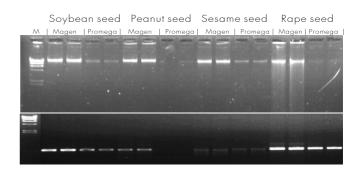


Sample	A260/280	A260/230	Yield (µg)	Company
Cassava	1.84	1.74	7.2	Qiagen
Cassava	1.85	1.43	7.7	Magen
Soybean	1.87	2.22	8.1	Qiagen
Soybean	1.83	1.99	9.7	Magen
Corn	1.82	2.10	5.6	Qiagen
Corn	1.84	2.25	6.4	Magen
Peanut	1.94	2.14	18.3	Qiagen
Peanut	1.94	2.29	20.4	Magen

Use Magen HiPure SF Plant DNA Kit and Qiagen Plant DN A Kit extract DNA from 4 different plant leaves. Take extracted DNA (5ul) running on 1% agarose gel. Analyze DNA yield and purity by Nanodrop. Test results show Magen and Qiagen kits get similar quality.

MagPure Seed DNA Kit (D6352) Vs Promage Wizard Magnetic Plant DNA Kit





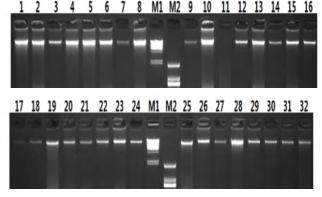
Use MagPure Seed DNA Kit and Promega Wizard Magenteic Plant DN A Kit extract DNA from 4 different plant leaves and seeds. Take extracted DNA (5µl) running on 1% agarose gel. Results show Magen kit gets better DNA yields.

MagPure Plant DNA Kit - Fast/Simple/High-throughput plant DNA extraction

Case for high throughput tobacco leaf DNA extraction: take $50\sim150$ mg tabacco leaf into 2ml thick wall Eppendolf tube and add 2 grinding beads and 800ul Buffer SOL/2ul RNase Solution. Transfer the tube to grinding machine, grind 30 sec on 50HZ and repeat once. Take out sample and stay in $65\sim70^{\circ}$ C oven for $10\sim15$ min. Centrifuge 3 min at $10,000\sim13,000\times g$. Transfer 400ul supertanant into deep hole plate of KingFisher Fles machine and follow the instructions. Over one thousand samples can be process in a day using with KingFisher Flex machine.

A260/230	A260/280	Yield(µg)
1.42	1.82	5.50
1.52	1.81	4.50
1.42	1.81	11.5
1.56	1.78	9.8
1.61	1.75	8
1.01	1.8	8.6
1.32	1.81	8.9
1.56	1.83	5
1.48	1.82	5.6
1.68	1.78	7.5
1.52	1.75	8.5
1.43	1.86	16.5
1.52	1.89	13.2
1.4	1.72	15
1.38	1.85	7.2
1.26	1.8	6.5

Innovatied wet grinding technology, without liquid nitrogen, safe and fast



Take 32 DNA (5 μ l) extracted from tobacco leaf analyzing on 1% agarose gel. Results show that DNA extracted by wet grinding process keeps good quality, no degradation.

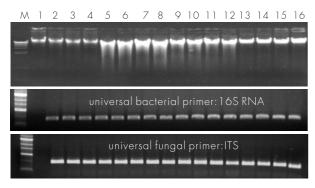
Microbes and their metabolites directly or indirectly affect human health. Study and analyze microbial characteristics of soil/stool/water is important to provide guidance to human health and environmental protections. Microbes have great difference between species and impurities, so it is difficult to extract microbial nucleic acid with standard kits. Magen R&D has developed various kinds of kits for different samples with high quality inhibitor removing solutions. Magen kits includes Bacterial/Fungal Yeast/Stool/Soil/Water/ samples DNA/RNA extraction by column extraction (HiPure) or high throughput magnetic beads extraction (MagPure).

	Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products	
	HiPure Stool DNA Kit	D314102	50		Isolation total DNA from 50-100mg stool samples		
	TIII DIE SIOOI DINA NI	D314103	250	•	• Isolation total DINA from 30-100 mg stool samples		
	HiPure Soil DNA Kit	D314202	50	•	Isolation DNA from 200-500mg soil sample		
	TIII DIE SOII DINA KII	D314203	250			Qiagen47014	
		D314401	1x96	•	Isolation DNA from 200-500mg soil, 50-100mg st		
	HiPure Soil/Stool DNA 96 Kit	D314402	4x96		or 100-500mg other environmental samples using	96 Plate	
		D314403	20x96			Qiagen47017	
	HiPure Bacterial DNA Kit	D314602	50	_	Isolation bacterial DNA from cultures, food and other	or camples	
		D314603	250	•	r isolahon baciehal bi va honi culiules, 1000 ana ome	ei suitipies	
		D314802	50	•	Isolation gDNA from biological sample and remove	e host DNA	
	HiPure Microbiome DNA Kit	D314803	250			Qiagen51704	
))		R418202	50				
	HiPure Microbial RNA Kit	R418203	250	•	Isolation total RNA from bacteria, yeast cells		
		R418302	50	•	Isolation total RNA from 500mg soil sample		
	HiPure Soil RNA Kit	R418303	250			Qiagen 12866	
		R418502	50				
	HiPure Stool RNA Kit	R418503	250	•	Isolation total RNA from 200mg stool sample		
		D513101	48				
	MagPure Bacterial DNA Kit	D513102	96	•	Isolation total DNA from bacterial culture		
		D513103	480				
2		D635601	48				
))	MagPure Soil DNA Kit	D635602	96	•	Isolation total DNA from 250-500mg soil	Qiagen4710	
יאימטוופווט טמט		D635603	480				
Š		D636401	48				
	MagPure Stool DNA Kit	D636402	96	•	Isolation total DNA from 100-150mg stool samples		
		D636403	480				

HiPure Soil Nucleic Acid Kits

HiPure Soil Nucleic Acid Kits use silica spin column purification technology and unique humic acid adsorbents, extract high purity and high yield DNA/RNA rapidly from different soil or environmental samples, including fungal, bacterial, and other microbial DNA/RNA.

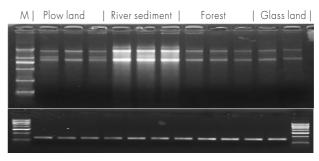
HiPure Soil DNA Kit (D3142)



Extract DNA from 16 different soil samples (50mg) by HiPure Soil DNA Kit. Take 10% DNA analyze on 0.8% agarose gel. M: Lambda DNA/Hind III Marker. Take 2% DNA as template, amplify bacterial 16S RNA and fungal ITS gene by PCR, then analyze DNA (5 μ PCR mixtur) on 1.8% agarose gel. M: DL2000 DNA Marker.

Lane $1\sim4$: soil from river sediment Lane $5\sim8$: soil from different forest Lane $9\sim12$: soil from glass land Lane $13\sim16$: soil from plow land

HiPure Soil RNA Kit (R4183)



Extract RNA from 4 different soil samples (500mg) by HiPure Soil RNA Mini Kit. Take 15% RNA analyze on 1% agarose.

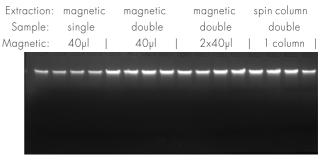
M: DI5000 DNA Marker

MagPure Soil DNA Kit(D6356)

MagPure Soil DNA Kits use magnetic bead purification technology and unique humic acid adsorbents, extract high purity and yield DNA/RNA rapidly from different soil or environmental samples, including fungal, bacterial and other microbial DNA/RNA. Kits can be used with different automatic nucleic acid purification machines like KingFisher Flex.

Test of Magen D6356 working with Kingfisher Flex

A260/230	A260/280	Conc ng/ul	DNA u	g Program
1.2	1.6	33.7	4.0	single hole
1.2	1.7	32.4	3.9	supernatant: 1 x 400µl
1.2	1.7	38.9	4.7	'
1.3	1.6	40.3	4.8	magnetic bead: 1 x 40µl
1.1	1.7	69.9	8.4	double hole
1.5	1.7	72.5	8.7	supernatant: 2 x 400µl
1.5	1.8	83.2	10.0	'
1.4	1.7	83.5	10.0	magnetic bead: 1 x 40µl
1.4	1.9	60.6	7.3	double hole
1.4	1.7	63.5	7.6	
1.4	1.7	89.6	10.7	supernatant: 2 x 400µl
1.3	1.7	96.4	11.6	magnetic bead:2 x 40µl
1.5	1.7	86.0	10.3	double hole
1.4	1.7	80.9	9.7.	
1.5	1.6	64.3	7.7	supernatant:2 x 400µl
1.4	1.7	56.1	6.7	extract by spin column

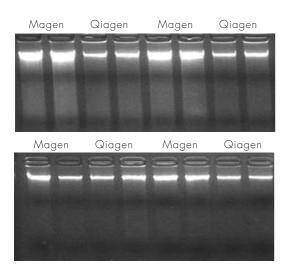


Use Magen MagPure Soil DNA Kit lyses one soil sample, get supernatant and extract DNA on KingFisher Flex. This test goes with two programs and contral by Magen column extraction kit (D3142).

MagPure Stool DNA Kit (high-throughput extraction)

MagPure Stool DNA Kit is based on magnetic beads extraction and specially design for high-throughput soil DNA extraction. It can rapidly extract high purity DNA from different stool samples, including fungal, bacterial, and other microbial DNA. Extraction can be finished in 60 min with mutiple samples. Purified DNA can be directly used for downstrean applications as PCR, Real-time PCR Eenzyme digestion, Southern blot. MagPure Stool DNA Kit is widely used with KingFisher machines.

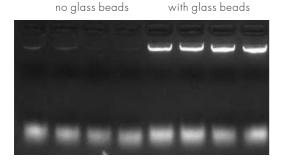
MagPure Stool DNA Kit (D6364) Vs QIAamp Fast Stool DNA Kit (51604)



Kits	A260/230	A260/280	Conc (ng/µl)	DNA µg
Magen	1.4	1.8	1 <i>7</i> 9. <i>7</i>	14.4
	1.7	1.8	211.3	16.9
Qiager	1.1	1.7	146.0	11.7
	1.4	1.8	147.0	11.8
Magen	1.2	1.8	1 <i>7</i> 3.5	13.9
	1.6	1.8	143.6	11.5
Qiager	1.1	1.8	110.9	8.9
	1.2	1.8	143.8	11.5
Magen	1.4	1.6	83.3	6.7
	1.6	1.7	102.0	8.2
Qiager	1.1	1.6	48.1	3.8
	1.5	1.6	59.6	4.8
Magen	1.1	1.7	99.0	7.9
	1.5	1.7	60.1	4.8
Qiager	0.9	1.7	77.7	6.2
	1.4	1.6	55.0	4.4

Use Magen Stool DNA Kit (D6364) and Qiagen Fast Stool DNA Kit (51604) extract DNA from 8 fresh human stool sample (150mg). Analyze DNA yield and purity by agarose gel and Nanodrop. Test results show Magen kit gets higher DNA yield and DNA purity than Qiagen kit.

Test result for Yeast DNA Extraction by MaPure Stool DNA Kit (D6364)



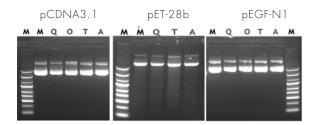
Take 1ml yeast culture and centrifuge. Use Magen Stool DNA Kit (D6364) extracting DNA. Mix with Buffer ATL/PCl and stay at 65°C for 15 min. Separate in two group, group 1 follow protocol directly (no glass beads). Group 2 add 500mg glass beads for grinding, vortex for 5 min, and then sample process with group one. Test results show that glass beads are key factor for DNA extraction from fungal samples successfully.

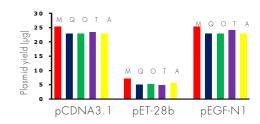
Plasmid DNA extraction are basic experiments in molecular biology area. And is also basic skills for every scientific researcher. With rich experience in this area, Magen R&D department has developed a series of plasmid DNA extraction products for 1-1000ml plasmid, non-endoxotin, and automatic purification platform. Magen provide products with silica spin column extraction technology and magnetic beads automatic extraction technology. Customers can choose the right product according their needs.

	Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products				
		P100102	100	•	Isolation up to 35µg plasmid DNA from 1-5ml bacte	erial culture				
	HiPure Plasmid Mini Kit	P100103	250			Qiagen27104				
		P100202	50		Isolation up to 70µg plasmid DNA from 5-15ml bac	torial aultura				
	HiPure Plasmid Mini Kit II	P100203	250	•	risolation up to 7 Opg plasmia DIVA from 3-13mil bac	ieriai culiule				
	HiPure Plasmid Plus 96 Kit	P100601	1x96	•	Isolation up to 20µg plasmid DNA from 1.5ml bacte	erial culture				
		P100602	4×96		using 96 well bind plate and 96 filter plate	·				
		P100603	20x96			Qiagen 1618				
	LED E JOHN DI LIAALING	P101302	25	_	legation up to 250mg plasmid DNA from 20.50ml h	agatarial gultura				
	HiPure Fastfilter Plasmid Midi Kit	P101303	100		 Isolation up to 250µg plasmid DNA from 30-50ml bacter 					
	HiPure Fastfilter Plasmid Maxi Kit	P101402	10		Isolation up to 1 mg plasmid DNA from 200ml bacte	scial aultura				
	HiPure Fastfilter Plasmid /Waxi Kit	P101403	50	•	risolation up to Triig plasmia DNA from 200mi bacie	eriai cullure				
)		P111602	10		Isolation up to 10mg endotoxin-free plasmid DNA fr	om 500ml				
)	HiPure Plasmid EF Mega Kit	P111603	50		Qiagen 1054578					
	HiPure Plasmid EF Mini Kit	P115402	50		om 10-15ml					
	HIPUre Plasmid EF /VIIII KIT	P115403	250							
		P115602	10	•	rom 200ml					
	HiPure Plasmid EF Maxi Kit	P115603	50		bacterial culture					
		P11 <i>57</i> 01	1x96							
	HiPure Plasmid EF 96 Kit	P11 <i>57</i> 02	4x96		Isolation up to 20µg endotoxin-free plasmid DNA fro bacterial culture using 96-well bind plate	om 1-5ml				
		P11 <i>57</i> 03	20x96							
	HiPure Plasmid EF Midi Kit(Vacuum)	P123102	50	•	Isolation up to 500µg endotoxin-free plasmid DNA f	rom 25-50ml				
	HiPure Plasmid EF Midi Kit(Spin)	P123102E	50		bacterial culture	Qiagen 1284				
		P181102	100							
S	MagPure Plasmid Mini Kit	P181103	500	•	Isolation up to 10µg plasmid DNA from 1.5ml bacte	erial culture				
Magneric pedas		P181104	5000							
) ====================================		P181402	100							
) D	MagPure Plasmid EF Mini Kit	P181403	500	•	Isolation up to 20µg endotoxin free plasmid DNA fro bacterial culture	om 1.5-5ml				
_		P181404	5000	paciettai cuiture						

HiPure Plasimd Mini Kit (1-5ml) Extraction high purity DNA from 1~5ml culture (P1001)

HiPure Plasmid Kits use classical alkaline lysis and silica spin column purification technology, extract high purity plasmid DNA from overnight culture such as E coli (Dh5 α , Jm109). Users can complete muliptle samples extraction in 30~60 min. Purified plasmid DNA can be directly used for downstream like sequencing, restriction enzyme digestion, PCR, Blotting, etc.



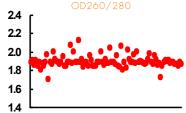


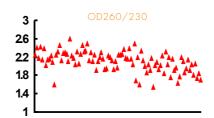
Use different companies plasmid DNA mini kit extracting 3 different plasmid cultures (3ml). Analyze plasmid DNA (1µl) on 1% agarose gel and Nanodrop. Test results show the four kits get similar DNA yield, Magen in a little higher.

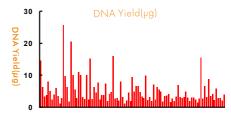
M: Magen, Q: Qiagen, T: Tiangen, O: Omega, A: Axygen.

MagPure Plasmid Mini Kit (P1811) - High throughput Plasmid DNA extraction by magnetic beads

MagPure Plasmid Mini Kits uses magnetic bead purification technology, extract high purity plasmid DNA, BAC, Cosmid, ect from bacterial culture. Purified plasmid DNA can be used directly for automatic sequencing, chip analysis and other applications. This kit can be directly used with different companies pipetting station or nucleic acid extraction instrument, complete 20~50 pieces of 96 well plate per day. In addition, we also provide manual protocol, 1 person can finish up to 10~30 pieces of 96 well plate in one day, greatly save time and cost.







Use MagPure Plasmid Mini Kit (P1811) extracting DNA from 96 different plasmid samples. And analyze DNA by Nanodrop 2000. A sequencing company (our customer) provide us a feedback that our kit reach 99% success in 200,000 plasmid samples extraction. Stable quality with different batches kits.



HiPure Plasmid Mini Kit (P1001)



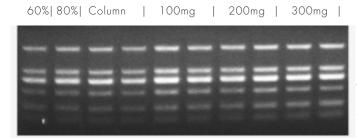
HiPure Plasmid EF Maxi Kit (P1156)

DNA/RNA Clean-up are basic experiments in molecular biology area. And is also basic skills for every scientific researcher. With rich experience in this area, Magen R&D department has developed a series of nucleic acid clean up products. Magen provide products with silica spin column extraction technology and magnetic beads automatic extraction technology. Customers can choose the right product according their needs.

	Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Produc		
	110 0 5 1 1 1 1 1	D211002	100		- DNIA	1 . (10 h		
	HiPure Gel DNA Micro Kit	D211003	250		DNA clean up from agarose gel with low volume	e elute (TOul)		
		D211102	100			0. 0070		
	HiPure Gel DNA Mini Kit	D211103	250	•	DNA Clean Up from agarose gel	Qiagen28704		
		D212002	100		DNIA Classific for DCD Facility and	0:2010		
	HiPure PCR Pure Micro Kit	D212003	250	•	DNA Clean Up from PCR, Enzyem reactions	Qiagen2810		
_	D212102 100 HiPure PCR Pure Mini Kit		DNIA Claga I in from PCP Entrom regetions					
	HIPUre PCK Pure /VIIII KIT	D212103	250		DNA Clean Up from PCR, Enzyem reactions			
)		D212201	1x96					
	HiPure Clean Up 96 Kit	D212202	4x96	DNA Clean Up from agarose gel&reactions using 96 bind p				
		D212203	20x96					
	HiPure DNA Clean Up Kit	D214102	100		 DNA Clean Up from PCR, Enzyem reactions, ru 	de aDNIA products		
	Till tile DINA Cledit op Kil	D214103	250		DIVA Cledit op Holli i Ck, Elizyetti reddiolis, tu	de gol va producis		
	HiPure RNA Clean Up Kit	D214402	50		RNA Clean Up from Enzyme reactions, rude RN	IA Products		
	Tilrule KNA Cledii op Kii	D214403	250			Qiagen7420		
		D500101	50					
	MagPure Gel Pure DNA Kit	D500102	500	•	DNA Clean Up from agarose gel using magnet	ic particles		
		D500103	5000					
		D500301	50					
	MagPure DNA/RNA CleanUp Kit	D500302	500	•	DNA/RNA Clean Up from PCR, enzyme re	ons using magnetic		
		D500303	5000		particles			
n		BCS-5	5ml					
ס ט ט	CleanSeq Beads	BCS-50	50ml	•	Bigdye terminator removal using magnetic bead	s BeckmanA2915		
) - -		BCS-500	500ml					
vagnenc peads	MagPuro A / YP	BP-5	5ml		DNA Clean Up from PCR&enzyme reactions	BeckmanA6388		
/ / /	MagPure A4 XP	BP-50	50ml		using size selection Speed beads	DeckmanA0386		
		BP-500 BXP-5	500ml 5ml					
	MagPure A3	BXP-50	50ml		DNA Clean Up from PCR&enzyme reactions			
		BXP-500	500ml		DINA Clean Up from PCR&enzyme reactions using size selection beads			
		XP-5	5ml					
	MagSelect Beads	XP-50	50ml		 DNA Clean Up from enzyme reactions using size 	e selection beads		
	<u> </u>	XP-500	500ml		. ,	BeckmanB2331		
		BRP-5	5ml					
	RNA Clean Beads	BRP-50	50ml	•	RNA Clean Up from enzyme reactions using be	ads		
		BRP-500	500ml			BeckmanA6398		

MagPure DNA Clean Up Kit (D5001) - High recovery of DNA from gel and Buffer by magnetic beads

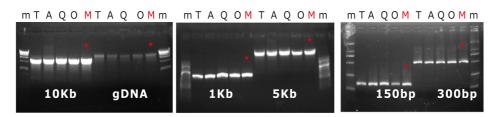
MagPure DNA Clean Up Kit is specially designed for bulk amount gel DNA purification. This kit uses superparamagnetic particle purification technology, Recover 100bp~20Kbp DNA fragments from 100~300mg agarose gel in high recovery yield (85%). Purified DNA can be directly used in sequencing, chip analysis and other applications.



Take 5µl 100bp DNA Marker running on 1% agarose gel for 5 min. Cut 100mg/200mg/300mg agarose gel (including DNA marker) and extract DNA fragments by HiPure Gel Pure DNA Mini Kit and MagPure Gel Pure DNA LQ Kit. Results show same results on 100/200/300mg gel, all get over 80% recovery yield and column kit gets higher yield than magnetic bead kit. A sequencing company (our customer) provid us a feedback that our kit reach 99% success in 50,000 pcs agarose gel extraction. Stable quality with different batches kits

HiPure Gel DNA Mini Kit - High recovery of DNA from agarose gel (D2111)

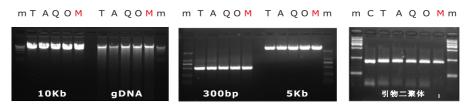
HiPure Gel DNA Mini Kits use silica spin column purification technology, extract high yield DNA fragments from different concentration agarose gel. Users can finish multiple DNA clean up in 15 min. Purified DNA can be directly used for downstream applications like sequencing, restriction enzyme digestion, PCR, Blotting, ect.



Different DNA fragments runned on 1% agarose gel electrophoresis. Then use different companies gel DNA extraction kits extracting DNA from agarose. M: Magen, Q: Qiagen, T: Tiangen, O: Omega, A: Axygen

HiPure PCR Pure Mini Kits - High recovery of DNA from PCR mixture (D2121)

HiPure PCR Pure Mini Kits use silica spin column purification technology, extract high yield DNA fragments from different size of PCR reaction mixtures. Fast ectraction finish in 15 min. Add binding buffer into PCR mixture, mix and transfer to spin column for DNA binding, but primer dimer/primer/salts will not be adsorbed and remove by flowthrough. Wash the columns with two low salt solution to remove other impurities, Elute the column by nuclease-free water, and get the purified DNA at last.



PCR reaction mixtures with different fragments purified by 5 companies PCR purification kits, then analyze purified DNA by agarose gel. Test results show 5 companies kits get similar DNA yield for PCR mixture. But when extracting from PCR mixtures with primer dimers, Magen HiPure PCR Pure Kit gets better quality in removing primer dimers completely.

With the discovery of more and more miRNA families and their important role in gene regulation, the characteristics, mechanism and biological function of miRNA as well as RNAi technology have become Hotspot of biological research. And Small interfering RNA (SiRNA) plays an important role in the gene therapy of tumor. The standard RNA purification technology is mainly for big size RNA(>200nt), and miRNA, especially miRNA <25nt, usually lost or low recovery in RNA purification and cause failure in downstream applications. Experiment results show that removing influence of big size RNA, can significantly improve miRNA analysis results. Magen provides targeted products for miRNA extraction from various samples.





Product Guide

	Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products
	HiPure Universal miRNA Kit	R431002 R431003	50 250	•	Isolation total RNA and miRNA from tissue, plant, o using MagZol reagent and column	cell Qiagen217084
mn	HiPure Cell miRNA Kit	R431102 R431103	50 250	•	Isolation total RNA and miRNA from cell and tissue without MagZol reagent	Qiagen217604
Column	HiPure Serum miRNA Kit	R431402 R431403	50 250	•	Isolation total RNA and miRNA from 0.3-0.9ml ser	um and plasma MN740981.50
	HiPure Liquid RNA (miRNA) Kit	R416302 R416303	50 250	•	Isolation total RNA (include miRNA) from 0.25ml b	ody fluids Qiagen217184

Advantages:

- High quality one step RNA extraction reagent combined with silica gel column can obtain the highest concentration
- Fast Extraction several samples can be extracted in 40 minutes
- High applicability samples including animals, plants, bacteria, cells, etc.
- High concentration efficiently remove macromolecular RNA, enrich small RNA and improve sensitivity

DNA and RNA purification technologies mainly include phenol-chloroform extraction, ion exchange, salting out, glass milk and silica gel column. However, these technologies often extract only one kind (DNA or RNA) and waste the samples. When sample is limited, we usually need to separate DNA and RNA from one sample. Extracting DNA, RNA and Protein separately from one sample technology was limited in the market. In 1993, Chomczynski improved the one-step RNA extraction method (Trizol Reagent), he extracted DNA, RNA and protein using only one solution. But the DNA purity was very low and extremely hard to dissolve (in 8mM NaOH solution), serious DNA fragmentation and can get only 10kb DNA. The DNA quality was difficult to meet downstream application requirements. Magen has developed extraction kits with spin column purification technology, can separate DNA, total RNA and protein from one sample rapidly and efficiently





	Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products
	HiPure DNA/RNA Kit	R511102 R511103	50 250	•	Co-Isolation DNA and RNA from a single sample (cells, soft tissue, plant sample)	Qiagen80204
Column	HiPure Fibrous DNA/RNA Kit	R511402 R511403	50 250		Co-Isolation DNA and RNA from skin, muscle, con cissue sample which is hard to lysed	nective tissue, fibrous
Ů	HiPure DNA/RNA/Protein Kit	R521102 R521103	50 250	•	Co-isolation DNA and RNA/ protein from a single (cells, soft tissue, plant sample)	sample Qiagen80004
	HiPure FFPE DNA/RNA Kit	IVD5116	50	•	Co-Isolation DNA and RNA from a single FFPE tiss	ue sample Qiagen80234
Magnetic beads	MagPure FFPE DNA/RNA Kit	IVD3026	200		Co-Isolation total RNA and DNA from FFPE tissue. during lysis then extract by magnetic beads. Higher	
Magneti	MagPure FFPE DNA/RNA Kit	R632701 R632702 R632703	48 96 5 x 96		Co-Isolation total RNA and DNA from FFPE tissue. by magnetic bead adsorption mechanism after lysis. Yield.	

Tissue RNA Preserve Tube contains a safe tissue RNA protective agent. It can rapidly cleave salivary cells, inactivate nuclease and protect RNA from degradation. Biological samples (tissues and cells) can be stored at room temperature ($15\sim25^{\circ}$ C) for 1 week, $2\sim8^{\circ}$ C for 1 months, or - 20° C/- 80° C for over 6 months by simply soaking in the reagent. Tissue RNA Preserve Tube is suitable for preserving various fresh biological samples, such as animal tissue, plant tissue, cultured cells, etc.

RNA Safer Reagent is a safe tissue RNA protective agent. It can quickly penetrate into the cell, inactivate nuclease and protect RNA from degradation. Biological samples (tissues and cells) can be stored at room temperature ($15\sim25^{\circ}$ C) for 1 week, $2\sim8^{\circ}$ C for 1 months, or - 20° C/- 80° C for over 6 months. RNA Safer Reagent is suitable for preserving various fresh biological samples, such as animal tissues, plant tissues, cultured cells, etc. Samples protected by RNA Safer Reagent can be more convenient for transportation and storage.





	Product Name	Cat #	Quantity	Price (\$) Feature
	Tissue RNA Preserve Tubes (2ml) Tissue RNA Preserve Tubes (5ml)	P8010 P8011	100	• 00 1 1 1 1 1 1 00 000C
	Tissue DNA Preserve Tubes (2ml) Tissue DNA Preserve Tubes (5ml)	P8020 P8021	100	 Preserve Tissue DNA at 15-25°C for 90 days, 2-8°C for 180 days,
Tube	Saliva DNA Preserve Tubes (5ml) Saliva DNA Preserve Tubes (5ml)	P8030 P8031	10	 Preserve 2ml Saliva DNA at 15-25°C for 1 year
Preserve Tube	Swab DNA Preserve Tubes (1.5ml) Swab DNA Preserve Tubes (1.5ml)	P8040 P8041	20	 Preserve Swab DNA at 15-25°C for 1 year
	Stool DNA Preserve Tubes (5ml) Stool DNA Preserve Tubes (5ml)	P8050 P8051	20	◆Preserve Stool DNA at 15-25°C for 14 days, Long term at -20°C
	Blood RNA Preserve Tubes (10ml) Blood RNA Preserve Tubes (10ml)	P8060 P8061	10	 Preserve 3ml Blood RNA at 2-8°C for 3 days, Long term at -20°C
± C	RNA Safer Reagent	P8310	500ml	 RNA preservation reagent
Reage	Saliva DNA Reagent	P8320	500ml	Saliva DNA preservation reagent
Preserve Reagent	Stool DNA Reagent	P8330	500ml	Stool DNA preservation reagent
<u></u>	RNA Safer LS Reagent	P8340	500ml	 Liquid samples (blood, saliva, cell culture medium) RNA preservation reagent

Product Guide

MagRotex 24 LV

Nucleic acid Extractor

Product Name	Cat #	Size	Feature
	S	mall Volume	Extractor
MagMix 32 Nucleic acid Extractor	MagMix32	32 channels	• Small nucleic acid extractor, 2 plates, 96 well plate, 8 magnetic sleeves, processing 1-32 samples
MagMix 48 Nucleic acid Extractor	MagMix48	48 channels	 Medium throughput nucleic acid extractor, 3 plates, 96 well plate, 8 magnetic sleeves, processing 1-48 samples
MagMix 96 Nucleic acid Extractor	MagMix96	96 channels	 High throughput nucleic acid extractor, 6 plates, 96 well plate, 96 magnetic sleeves, processing 1-96 samples
			THE PARTY OF THE P
	Μ	edium Volui	me Extractor
MagMix 32B Nucleic acid Extractor	MagMix32B	32 channels	 Medium volume nucleic acid extractor, anti-pollution, high sensitivity, 4 plates, 48 well plate, 8 magnetic sleeves, processing 1-32 samples
MagMix 48B Nucleic acid Extractor	MagMix48B	48 channels	 Medium volume nucleic acid extractor, anti-pollution, high sensitivity, 6 plates, 48 well plate, 48 magnetic sleeves, processing 1-48 samples
MagRotex 32 Nucleic acid Extractor	MagRotex32	32 channels	 Simple nucleic acid extractor, medium volume, scientific research type, reagent strip, elution tube, processing 1-32 samples (sample volume 0.2-4ml)
MagRotex 8 Nucleic acid Extractor	MagRotex8	8 channels	 Simple nucleic acid extractor, medium volume, scientific research type, reagent strip, elution tube, processing 1-8 samples (sample volume 0.2-4ml)
	La	rge Volume	Extractor
MagMix 12 Nucleic acid Extractor	MagMix12	12 channels	 Large volume nucleic acid extractor, cell free DNA, 24 well plate, 3 plates, 4 tests / plate, maximum treatment of 2ml sample
MagMix 16 Nucleic acid Extractor	MagMix16	48 channels	 Large volume nucleic acid extractor, cell free DNA, 56 well plate, 2 plates, 8 tests / plate, maximum treatment of 5ml sample
MagMix 24 Nucleic acid Extractor	MagMix24	24 channels	 Large volume nucleic acid extractor, cell free DNA, 24 well plate, 6 plates, 24 magnetic sleeves, maximum treatment of 2ml sample
MagRotex 24 Plus LV Nucleic acid Extractor	MagRotex24 Plus	24 channels	 Large volume nucleic acid extractor, cell free DNA, rotate to prevent pollution, reagent strip, 24 channels, isolate free DNA from 2-9ml plasma/serum

plasma/serum

MagRotex24 24 channels

• Large volume nucleic acid extractor, cell free DNA, rotate to prevent

pollution, reagent strip, 24 channels, isolate free DNA from 2-4ml

MagMix Extractor

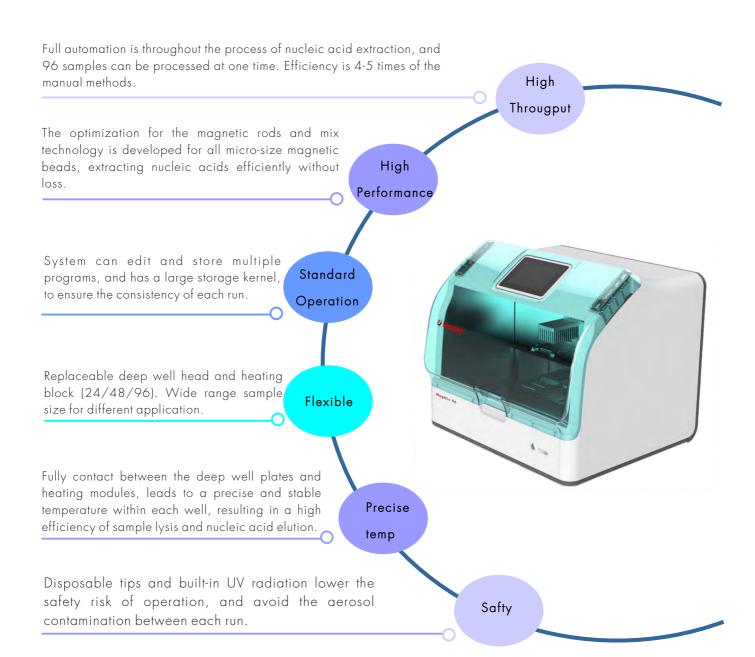
MagMix Automatic Nucleic Acid Extraction System is the equipment for DNA/RNA extraction from biological samples. The system operates automatically by moving magnetic rods and disposable tips, to complete the process of sample lysis, nucleic acid adsorption, wash and elution. It can process 1-96 samples at one time, meeting different sample amount requirement. It can be used with single reagent tube consumable to prevent the waste of consumables.

The system is compatible with different reagents for DNA/RNA extraction from animal, plant, food, pathogen, and clinical samples. It is applicable for use in multiple fields, for example, clinical test, scientific research, genomic analysis, centers for disease control, food safety and forensic identification.

Purchase Guide

Cat. No.	Consumables	Extraction mode	Plate/Strip amount	Hole/Plate	Sample amount	Sample volume	Process Volume
MagMix 32	96 well plate	Single plate, 16 samples/plate	2 plates	6 hole position	32	<1ml	1 ml
MagMix 48	96 well plate	Single plate, 16	3 plates	6 hole position	48	<500μΙ	1 ml
MagMix 96	96 well plate	Multiple plates, 96 samples/plate	6 plates	6 plate position	96	<500μΙ	1 ml
MagRotex 8	Reagent strip	Reagent strip	8 strips	7 hole position	8	0.2-1ml	4ml
MagRotex 32	Reagent strip	Reagent strip	32 strips	7 hole position	32	0.2-4ml	4ml
МадМіх 32В	48 well plate	Single plate, 8 samples/plate	4 plates	6 hole position	32	<750μl	1.5ml
MagMix 48B	48 well plate	Multiple plates, 48 samples/plate	6 plates	6 plate position	48	<750μl	1.5ml
MagMix 12	24 well plate	Single plate, 4 samples/plate	3 plates	6 hole position	12	<2ml	5ml
MagMix 16	56 well plate	Single plate, 8 samples/plate	2 plates	7 hole position	16	<5ml	1 Oml
MagMix 24	24 well plate	Multiple plates, 24 samples/plate	6 plates	6 plate position	24	<2ml	5ml
MagRotex 24	Reagent strip	Reagent strip	24 strips	6 hole position	24	2ml-4ml	7ml
MagRotex 24 PLus	Reagent strip	Reagent strip	24 strips	9 hole position	24	2ml-9ml	10ml

MagMix Automated Extractor





Magen Prepack Kit for MagMix 32/48 Extractor



Magen Prepack Kit for MagMix 96 Extractor

MagMix Automated Extactor

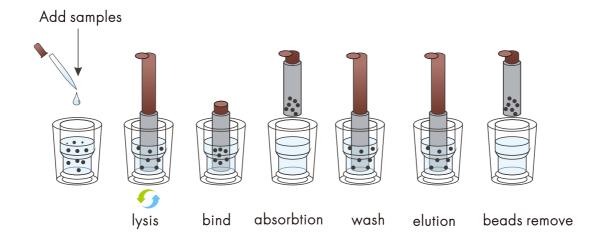
MagMix Automatic Nucleic Acid Extraction System is the equipment for DNA/RNA extraction from biological samples. The system operates automatically by moving magnetic rods and disposable tips, to complete the process of sample lysis, nucleic acid adsorption, wash and elution. It can treat 96 samples easily and efficiently at one time. By using match reagents, it is applicable for samples from different origin (animal, plant, and clinical samples, etc.).

Automatic Nucleic Acid Extraction System uses customized 96-well deep well plates, which match closely with heating adaptor for a stable and consistent temperature between wells, leading to a stable result. The system is compatible with different reagents for DNA/RNA extraction from animal, plant, food, pathogen, and clinical samples. It is applicable for use in multiple fields, for example, clinical test, scientific research, genomic analysis, centers for disease control, food safety and forensic identification.

Principle

The system operates by controlling the magnetic rods to transfer the magnetic beads, and disposable tips to mix the solutions. Samples are lysed, and then the nucleic acids are adsorbed to magnetic beads, then washed and eluted to produce the high-quality nucleic acids.

The magnetic bead method has the advantage of high automation, efficient extraction, stable results and easy operation. 96 samples can be processed by using 96-well depp well plate.



Applications

MagMix Automatic Nucleic Acid System is applicable to the samples of serum, plasma, throat swab, anal swab, feces, genital secretion, exfoliated cells, urine, sputum, etc. And it can be used in clinical laboratory of gene detection, Centers for Disease Control, research institute, medical colleges, etc.

The series of nucleic acid columns produced by Magen Biotech are based on carefully selected imported silica membranes (GF/B, GF/D, GF/F). Columns production processes such as polypropylene injection molding materials, injection molding process, and downstream membrane packing and compression rings are strictly controlled. This is to ensure that the column has extremely high adsorption capacity and long-term stability. Compared with conventional products on the market, Magen's columns are with varieties, and binding rate will not change when stored at room temperature for 4 years.

Product Name	Cat # S	ze Price (\$) Feature
HiPure DNA Nano Column	C13010 1000/B	■ Column for trace amount DNA isolation
HiPure DNA Micro Column	C13011 1000/B	ag Column for micro amount DNA isolation
HiPure DNA Mini Column I	C13100 1000/B	● Column for universal DNA isolation, gel/PCR extraction
HiPure DNA Mini Column II	C13110 1000/B	• Column for universal DNA isolation, plasmid DNA extraction,
HiPure RNA Mini Column	C13111 1000/B	Column for total RNA isolation, universal RNA column, no sample clogging column design
HiPure Viral Mini Column	C13112 1000/B	● Column for viral/pathogen nucleic acid isolation
HiPure cfDNA Mini Column	C13113 1000/B	ag • Column for cell-free DNA isolation
HiPure DNA Midi Column	C13120 100/B	Column for medium amount nucleic acid isolation
HiPure DNA Midi Column III	C13121 100/B	■ Column for medium amount nucleic acid isolation
HiPure gDNA Maxi Column	C13122 100/B	 Column for maxi amount genomic DNA isolation, no sample clogging column design
HiPure DNA Maxi Column III	C13123 100/B	• Column for maxi amount DNA isolation, V bottom 50ml collection tul
HiPure DNA Maxi Column C	C13124 100/B	● Column for maxi amount DNA isolation, U bottom 50ml collection tu
HiPure DNA Plate	C13130 10/B	■ 96 well DNA Column plate with 1.6ml Collection plate
HiPure gDNA Plate	C13131 10/B	 96 well DNA Column plate with 1.6ml Collection plate, for genomic DNA isolation
HiPure CFDNA Column Set I	C13114 100/Pc	ck • cfDNA Column Set with 50ml centrifuge tube, extender tube, cfDNA
(Centrifuge method)		mini column, collection tube, collection tube III
HiPure CFDNA Column Set II	C13115 100/Pc	ck • cfDNA Column Set with extender tube, cfDNA mini column, vac
(Vacuum method)		connector, collection tube
Extender Tubes	C13302 50/B	ag • Extender tube/Column funnel to prepare with large sample size

Purchase Guide

Item No.	Column types	Membrane type/number of layers	Collection tubes	Liquid volume capacity	Plasmid DNA binding capacity (Physical adsorption)	gDNA/RNA binding capacity (Alcohol-mediat ed adsorption)	Minimum Elution volume
C13010	HiPure DNA Nano Column	2 layers GF/F	2ml without cap	700µl	5 μ g	20μg	10μΙ
C13011	HiPure DNA Micro Column	3 layers GF/F	2ml without cap	700µl	10µg	50µg	15µl
C13100	HiPure DNA Mini Column I	2 layers GF/B	2ml without cap	700µl	15µg	100μg	30µІ
C13110	HiPure DNA Mini Column II	4 layers GF/B	2ml without cap	800µl	35µg	200μg	50μΙ
C13111	HiPure RNA Mini Column	3 layers GF/B	2ml without cap	800µl	30µg	200μg	30µІ
C13112	HiPure Viral Mini Column	3 layers GF/F	2ml without cap	800µl	30µд	200μg	30µІ
C13113	HiPure CFDNA Mini Column	3 layers GF/F 1 layer GF/B	2ml without cap	800µl	30µg	200μg	30µІ
C13120	HiPure DNA Midi Column	4 layers GF/B	15ml Centrifuge tube	4ml	125μg	lmg	500μΙ
C13121	HiPure DNA Midi Column III	8 layers GF/B	15ml Centrifuge tube	4ml	250µg	l mg	500μΙ
C13122	HiPure DNA Maxi Column	4 layers GF/B	50ml Centrifuge tube	20ml	500μg	5mg	1000μΙ
C13123	HiPure DNA Maxi Column III	8 layers GF/B	50ml Centrifuge tube	20ml	lmg	5mg	1000μΙ
C13124	HiPure DNA Maxi Column C	8 layers GF/B	50ml high speed Centrifuge tube	12ml	l mg	5mg	700µl
C13130	HiPure DNA Plate	2 layers GF/F	1.6ml Plate	900µl	30µg	100μg	80μΙ
C13131	HiPure gDNA Plate	2 layers GF/B	1.6ml Plate	900µl	30µg	100μg	80μΙ

Note: GF/B pore size is for 1.0 μ M glass fiber membrane; GF/F pore size is for 0.7 μ m glass fiber membrane.



Magen Column Family

Magnetic bead nucleic acid purification technology uses nano or micron superparamagnetic material as the matrix, generally black ferric oxide or yellowish brown ferricoxide as the magnetic material. The surface of bead is coated with appropriate functional groups, which can adsorb nucleic acid. Magnetic beads commonly used for nucleic acids, containing carboxyl groups, hydroxyl groups, or silicon groups. Silicon-based magnetic beads are the most common, and its principle of adsorbing nucleic acid is consistent with the classical glass milk purification technology or glass fiber filter membrane purification method. Magpure particle is a kind of polydisperse fast speed silica magnetic beads. The core is ferricoxide, accounting for 50%, and the surface coating is silica, accounting for 50%. The product can be used for plasmid extraction, gel DNA recovery, product purification, genomic DNA and RNA extraction, and viral nucleic acid extraction.

Product Guide

Product Name	Cat #	Size	Price (\$) Feature
		DNA/R	RNA binding beads
	C14100	100 ml	
MagPure Particles	C14101	400 ml	 Magnetic beads for gDNA/RNA, viral DNA/RNA isolation, 1.5-5µm
Magrule rafficles	C14102	3x400 ml	size silica beads
	C14103	10x400 ml	
	C14110	100 ml	
MagPure Particles N	C14111	400 ml	 Magnetic beads for viral DNA/RNA extraction, plasmid, DNA/RNA
Magi vie i afficies i v	C14112	3x400 ml	Clean Up, 0.2~2µm silica beads
	C14113	10x400 ml	
	C14120	100 ml	
MagPure Particles G	C14121	400 ml	 Magnetic beads for circulating/FFPE DNA/RNA isolaiton, 1~1.5µm
Magrule rafficles G	C14122	3x400 ml	size silica beads
	C14123	10x400 ml	
Mara Pinal Portials	C14130	10 ml	 Magnetic beads for low copy DNA/RNA isolation, immunoassays
MagBind Particles	C14131	100 ml	1μm size carboxyl beads
	C14140	100 ml	
AA D D L	C14141	400 ml	 Magnetic beads for large volume cell-free DNA/RNA isolation, 0.2
MagPure Particles F	C14142	3x400 ml	1.5µm size silica beads
	C14143	10x400 ml	
		N	GS Clean up Beads
	(See DNA/	/RNA Clean up on Page 25)

Purchase Guide

Features	MagPure Particles	MagPure Particles N	MagPure Particles G	MagPure Particles F	MagBind Particles
Cat.No.	C1410	C1411	C1412	C1414	C1413
Concentration	100mg/ml	70mg/ml	40mg/ml	50mg/ml	10mg/ml
Form	Amorphous and Porous	Amorphous and Porous	Porous	Amorphous	Nonporous
Surface function	Si-OH, Silica Beads	Si-OH, Silica Beads	Si-OH, Silica Beads	Si-OH, Silica Beads	COOH, Carbo Beads
Dispersion	Polydisperse	Polydisperse	Monodisperse	Monodisperse	Monodisperse
Particle Size	1.5~5μm	0.2~2μm	1~1.5μm	0.2-1.5μm	0.8-1 μm
Color	Black	Yellowish Brown	Dark Brown	Dark Brown	Yellowish Brow
Magnetic response	1 <i>5</i> -30s	~60s	~30s	20s	120s
Settling Time (1 ml)	>5min	>10min	>3 min	>3 min	>2 h
Usage (0.2ml Sample)	20ul	20ul	20~30ul	20~30ul	20~30ul
DNA Recover Rate(only 4M GITC)	>80%	>80%	>80%	>80%	0
DNA Recover Rate(10% PEG8000/NaCl)	>85%	>85%	>85%	>85%	>90%
Recommended Use	 gDNA/RNA Isolation from Blood, Tissue, Plant, Swab, Spots, Stool, Soil and etc Viral DNA/RNA Isolation Agarose Gel DNA Purification 	 DNA/RNA Isolation fromlow nucleic acid content samples Plasmid Isolation DNA/RNA Clean Up 	 Circulating DNA Isolation Viral Nucleic acid Isolation gDNA Isolation FFPE DNA/RNA Isolation 	 Plasmid extraction gel DNA recovery genomic DNA extraction RNA extraction viral nucleic acid extraction Circulating DNA 	 DNA/RNA Clean Up and concentration DNA/RNA Isolation fromI nucleic acid content sample Research immunoassays

The MagPure magnetic-particle technology combines the speed and efficiency of silica-based DNA purification with the convenient handling of magnetic particles. DNA binds to the silica surface of the magnetic particles in the presence of a chaotropic salt. DNA bound to the particles is then efficiently washed, considerably improving the purity of DNA. High-quality DNA is eluted. The automated purification procedure completely removes enzymes, nucleotides, and other contaminants and inhibitors. Purified DNA is suitable for direct use in downstream applications, such as sequencing and microarray analysis.



Chemical

Magen provides high purity chemicals for nucleic acid extraction use or reagents production. With rich experience, strict internal QC control and high quality material source, Magen company is ideal to help life science companies to get reliable materials to make high quality production. We can also offer whole solutions for OEM production and help customer to build production line. All chemicals are stable at room temperature and keep high batch consistency. We are able to provide on small or bulk package.

Product Guide

Product Name	Cat #	Size	Price (\$) Feature
	C11101	5KG	
Guanidine hydrochloride	C11102	25KG	 Molecular Biology Grade, CAS: 50-01-1
	C11103	5KG	
Guanidinium thiocyanate	C11104	25KG	 Molecular Biology Grade, CAS: 593-84-0
D.:: 50	C11201	1KG	- D.L
Brij-58	C11202	10KG	 Polyoxyethylene ether, CAS: 9004-95-9
SDS	C11203	1KG	 Sodium dodecyl sulfate, CAS: 151-21-3
303	C11204	5KG	Sodium dodecyi sulidie, CAS. 131-21-3
СТАВ	C11205	1KG	 Cetyltrimethylammonium bromide, CAS: 57-09-0
CIAD	C11206	5KG	Ceryllimethylammonium blomide, CAS. 37-09-0
SLS	C11207	1KG	2.6 1.046.1071//
313	C11208	5KG	• Sarcosyl, CAS: 137-16-6
Triton X-100	C11209	4000ml	Octylphenoxypolyethoxyethanol, CAS: 9002-93-1
Tween-20	C11210	4000ml	• Polyethylene glycol sorbitan monolaurate, CAS: 9005-64-5
EDTA NI=2	C11220	1KG	- D: It - L. CAC 120 22 2
EDTA-Na2	C11221	25KG	Disodium edetate, CAS: 139-33-3
T	C11222	1KG	
Tris base	C11223	5KG	 Molecular Biology Grade, CAS: 77-86-1
T. 1101	C11224	1KG	
Tris HCL	C11225	5KG	 Molecular Biology Grade, CAS: 1185-53-1
	C12140	lg	
DTT	C12141	10g	• Dithiothreitol, CAS: 3483-12-3
	C12142	100g	
PVP-40	C198	100g	• AA D: C CAC 1105 501
ΓVΓ -4 U	C199	1000g	 Molecular Biology Grade, CAS: 1185-53-1

59 Enzyme

Proteinase K is a stable serine protease with broad substrate specificity. It degrades many proteins in the native state even in the presence of detergents. It is widely used in molecular biology applications to digest unwanted proteins, such as nucleases in DNA or RNA preparations from microorganisms, cultured cells, and plants.

Rnase A is an endoribonuclease that specifically degrades single-stranded RNA at C and U residues. It is the removal of RNA from preparations of plasmid DNA. The enzyme is active under a wide range of reaction conditions. At low salt concentrations (0 to 100 mM NaCl), RNase A cleaves single-stranded and double-stranded RNA as well as the RNA strand in RNA-DNA hybrids.

Product Guide

Product Name	Cat #	Size	Price (\$)	Feature	
	C12100	1g			
Proteinase K	C12101	10g		• Ultra-pure recombinant protease K lyophilized, >30units/30mg protein	
(Lyophilizate, Ultra Pure)	C12102	100g			
Proteinase K Solution	C12103			Ready to use normal temperature liquid protease K	
Froleinase K Solution	C12104			Ready to use normal temperature liquid professe is	
	C12110	310 µg			
Poly A	C12111	lg		• Carrier RNA, Poly A, nucleic acid assistant	
	C12112 3	10 μg-1 mg			
D A	C12120	1g		Bovine pancreatic ribonuclease A (lyophilized powder)	
Rnase A	C12121	10g		Bovine panciediic riboniiclease A (lyophilizea powder)	
RNase Solution	C12123	10ml			
	C12124	100ml		- It shall be a	
DNase Free RNase Solution	C12128	1 Oml		Liquid ribonuclease A	
	C12129	100ml			
	C12131	100mg		High purity bovine pancreatic deoxyribonuclease I (3000 units/mg),	
Dnase I	C12132	1g		with solution and DNase buffer	
	C12133	500 Preps			
DNase Set	C121341C	0 x 500 Preps		RNase free DNase I kit with digestion buffer	
Lysozyme	C12135	10g		• CAS: 12650-88-3, >50Kunitz units/mg protein	
2ml Beads Tubes	C14501	100/PK		Glass bead tubes for soil, stool, tissue lysis	
2ml Bacterial Tubes	C14502	100/PK		Glass bead tubes for bacterial lysis	

All products work high performance on nucleic acid isolation. Small and bulk OEM package are both available.

cfDNA detection is also widely used in noninvasive prenatal testing (NIPT). The method for detecting cfDNA by NIPT is mainly developed based on next-generation sequencing technology (NGS), including random high-throughput parallel sequencing, target or chromosome specific sequencing and single nucleotide polymorphism sequencing. Fetal cfDNA in maternal plasma accounts for more than 10% of the total cfDNA in maternal plasma. Detecting these fetal cfDNA can determine the fetal RhD blood group, gender, chromosomal aneuploidy disease, single gene genetic disease and other related information. In addition, this method of detecting maternal plasma fetal cfDNA is less traumatic than invasive methods such as amniocentesis or villus biopsy, which greatly reduces the risk of complications such as intrauterine infection and abortion.

Product Name	Cat #	Preps	Price (\$)	Feature Substitute Produ		
Cell Free DNA/RNA Kit						
HiPure Circulating Nucleic Acid	D318002	50		Isolation circulating DNA from 0.6ml plasma/serum/body fluids		
Micro Kit	D318003	250		isolation chestaling 21 4 Chain C. Chir plasma, sciolin, bedy holds		
HiPure Circulating DNA Midi Kit C	D318202C	136		 Circulating DNA from 1~5ml plasma/serum/body fluids by Vacuum 		
J	D318203C	547				
MagPure Circulating DNA Mini Kit	IVD5432	200	•	Circulating DNA from 0.2~1.2ml plasma/body fluids by Magnetic be		
MagPure Circulating DNA Rich	1291750	50	•	Remove DNA fragments >500bp, rich small fragment cfDNA from		
Mini Kit	12917200) 200		0.2~0.6ml plasma/serum		
MagPure Circulating DNA Rich	1292750	50	•	Remove DNA fragments >500bp, rich small fragment cfDNA from		
Maxi Kit	12927200	200	5ml plasma/serum			
Columns/Magnetic Beads						
MagPure Particles G	C14120	100 ml	•	Magnetic beads for circulating/FFPE DNA/RNA isolaiton, $1\sim1.5$ um size silica beads		
	XP-5	5ml				
MagSelect Beads	XP-50	50ml		DNA Clean Up from enzyme reactions using size selection beads		
	XP-500	500ml		BeckmanB233		
HiPure cfDNA Mini Column	C13113	100/Bag	•	Column for cell-free DNA isolation		
HiPure CFDNA Column Set I (Centrifuge method)	C13114	100/Pack	•	 cfDNA Column Set with 50ml centrifuge tube, extender tube, cfDNA mini column, collection tube, collection tube III 		
HiPure CFDNA Column Set II (Vacuum method)	C13115	100/Pack	•	cfDNA Column Set with extender tube, cfDNA mini column, vac connector, collection tube		
Machine						
MagMix 32 Nucleic acid Extractor	MagMix32	32 channe	ls	 Small nucleic acid extractor, 2 plates, 96 well plate, 8 magnes sleeves, processing 1-32 samples 		
MagMix 96 Nucleic acid Extractor	MagMix96	96 channe	ls	• High throughput nucleic acid extractor, 6 plates, 96 well plate,		

D3182C HiPure Circulating DNA Midi Kit C (Vaccum Protocol)



Introduction

Free-circulating nucleic acids, such as tumor-specific extracellular DNA fragments and mRNAs in the blood or fetal nucleic acids in maternal blood, are present in serum or plasma usually as short fragments, <1000bp (DNA). HiPure Circulating DNA Midi Kit enables efficient purification of these circulating nucleic acids from human plasma, serum, or urine. The extracted products can be used for clinical in vitro detection.





Specification

Main Functions	Isolation circulating DNA from 1-5ml plasma, serum, body fluids using vacuum protocol
Applications	qPCR, liquid or solid chip analysis, hybridization and SNP detection, etc.
Purification method	Mini spin column
Purification technology	Silica technology
Process method	Manual (vacuum)
Sample type	Serum, plasma and other cell-free fluid samples
Sample amount	1-5ml
Elution volume	≥50µl
Time per run	≤60 minutes
Maxi volume of column	4ml
Binding yield of column	lmg



- High yield most optimal process, free DNA (>50bp) can be obtained to the maximum extent
- High concentration low elution volume, ensuring high nucleic acid concentration
- High purity low alcohol binding method, completely removing inhibitor and protein pollution
- High recovery DNA can be recovered at the level of PG by silica gel column purification

IVD5432 MagPure Circulating DNA Mini Kit



Introduction

The Kit is designed for purification of high quality circulating DNA (cfDNA) from cell-free body fluids (such as plasma, serum). The purified DNA is suitable for direct use in downstream applications such as PCR, real-time PCR, biochip analysis and NGS.





Specification

Features	Specifications
Main Functions	Isolation circulating DNA from 0.2-0.6ml plasma, ser body fluids
Applications	qPCR, NGS, etc.
Purification method	Polydisperse magneticbeads
Purification technology	Magnetic beadstechnology
Process method	Manual or automatic
Adaptive instrument	Nucleic acid extractor and pipetting workstation
Sample type	Serum, plasma
Sample amount	0.2 - 0.6ml



Advantages

- Automatic suitable for automatic extraction
- Economy excellent performance and cost effectiveness



Principles

This product is based on the purification method of high binding magnetic particles. The sample is lysed and digested under the action of lysate and protease. DNA is released into the lysate. After adding magnetic particles and binding solution, DNA will be adsorbed on the surface of magnetic particles, and impurities such as proteins will be removed without adsorption. The adsorbed particles were washed with washing solution to remove proteins and impurities, washed with ethanol to remove salts, and finally DNA was eluted by elution buffer.

The circulating DNA released by circulating tumor cells in plasma or in situ tumor cells into circulation in tumor patients is also called ctDNA. The research directions of ctDNA in tumor diagnosis mainly include: detection of ctDNA mutation, tumor specific microsatellite changes, epigenetic changes, ctDNA integrity detection and virus DNA detection. CtDNA mutation detection can not only obtain the gene mutation results corresponding to tumor tissues, but also more sensitively and specifically detect typical characteristic mutations such as EGFR gene mutation of lung cancer, KRAS mutation of colorectal cancer and BRAF mutation of melanoma.

Product Name	Cat #	Preps	Price (\$)	Feature Sul	bstitute Products
Cell Free DNA/RNA Kit					
HiPure Circulating DNA Kit	IVD3182	50	•	Circulating DNA from 1~5ml plasma/serum/body flu	ids by Vacuum Qiagen 5511
MagPure Circulating DNA Maxi Kit	IVD5435	50	•	Circulating DNA from 1~6ml plasma/serum/body fluids l	by Magnetic beads Life A293
MagPure Circulating DNA Maxi Kit	1292750	50	•	Remove DNA fragments >500bp, rich small fragment	cfDNA from
	12927200	200		5ml plasma/serum	
FFPE DNA/RNA Kit					
HiPure FFPE DNA Kit	IVD3126	100	•	Isolation total DNA from FFPE tissue samples	
AAAADura EEDE DNIA Vit	D632301B	48	•	Isolation total DNA from FFPE using high bind beads	
MagPure FFPE DNA Kit	D632302B	96			Omega M69
MagPure FFPE DNA Kit (High Pure)	D632301D	48	•	Isolation high pure total DNA from FFPE using high bir	ıd beads
Magrote THE DIVITION (High Fole)	D632302D	96			
HiPure Microbiome DNA Kit	IVD5116	50	•	Co-Isolation DNA and RNA from a single FFPE tissue so	ample Qiagen8023
MagPure FFPE DNA/RNA Kit	IVD3026	200	•	Co-Isolation total RNA and DNA from FFPE tissue	
Columns/Magnetic Beads					
MagPure Particles G	C14120	100 ml	•	Magnetic beads for circulating/FFPE DNA/RNA isola size silica beads	iton, 1~1.5um
HiPure cfDNA Mini Column	C13113 10	DO/Bag	•	Small amount of cfDNA adsorption column (4 layers of glass fiber filter membrane)	GF/F imported
HiPure CFDNA Column Set II (Vacuum method)	C13115 1	00/Pack	•	cfDNA Column Set with extender tube, cfDNA mini c connector, collection tube	olumn, vac
Machine					
MagMix 12 Nucleic acid Extractor	MagMix12	12 chann	els •	Large volume nucleic acid extractor, cell free DNA, 2 plates, 4 tests / plate, maximum treatment of 2ml samp	
MagRotex 24 LV Nucleic acid Extractor	MagRotex24	24 channe	els •	Large volume nucleic acid extractor, cell free DNA, repollution, reagent strip, 24 channels, isolate free D1 plasma/serum	

IVD3126 HiPure FFPE DNA Kit



Introduction

HiPure FFPE Nucleic acid Kit supplies a simple and rapid DNA extraction for Formalin-fixed, paraffin-embedded (FFPE) tissue and sections samples. This kit is based on silica gel column purification technology, no phenolchloroform extraction or alcohol precipitation. The whole extraction only takes 20 minutes (not including digestion time). DNA can be directly used for downstream applications such as PCR, southern blot and viral DNA detection, etc.





Specification

Features	Specifications
Main Functions	Isolation total DNA from FFPE tissue samples
Applications	PCR, Southern Blot and viral DNA detection, etc.
Purification method	Mini spin column
Purification technology	Silica technology
Process method	Manual (centrifugation or vacuum)
Sample type	Formalin - fixed, paraffin - embedded (FFPE) tissue and sections samples
Sample amount	<20mg
Elution volume	<20µl
Time per run	≤20 minutes
Maxi volume of column	4ml
Binding yield of column	100µg



- Safety deparaffinating without contact with xylene or other toxic solution
- Fast without overnight incubation and digestion, several samples can be extracted within 2 hours
- High efficiency remove the formaldehyde modification of DNA, greatly enhancing the sensitivity of PCR
- High yield most optimal process to ensure the highest recovery
- High recovery-silica gel column purification method can recover nucleic acid molecules as low as PG

IVD3026 MagPure FFPE DNA/RNA Kit



Introduction

The Kit is specially designed for simultaneous purification of genomic DNA and total RNA from formalin-fixed, paraffin-embedded (FFPE) tissue sections. Purified DNA/RNA is suitable for use in applications such as real-time PCR and Pyrosequencing.





Specification

Features	Specifications
Main Functions	Co-isolation total RNA and DNA from FFPE tissue
Applications	RT-PCR, cDNA synthesis, PCR and second generation sequencing
Purification method	Polydisperse magnetic beads
Purification technology	Magnetic beads technology
Process method	Manual or automatic
Adaptive instrument	Nucleic acid extractor and pipetting workstation
Sample type	FFPE slice, FFPE puncture sample, embedded tissue
Sample amount	No more than six 10µm sections of 150mm² surface area or three 20µm sections of 150mm² surface area.

Advantages A

- Post digestion sorting higher DNA and RNA yields
- Economy excellent performance and cost effectiveness



Principles

FFPE samples are incubated in an optimized lysis buffer, which results in the release of RNA and precipitation of DNA. After centrifugation, the RNA-containing supernatant and DNA-containing pellet are then processed separately to purify RNA and DNA. After adding magnetic particles and binding solution, DNA/RNA will be adsorbed on the surface of magnetic particles, and impurities such as proteins will be removed without adsorption. The adsorbed particles were washed with washing solution to remove proteins and impurities, washed with ethanol to remove salts, and finally DNA/RNA was eluted by RNase Free Water.

Product Name	Cat #	Preps	Price (\$) Feature	Substitute Produc		
Blood/Tissue/Saliva/Swab	DNA/RNA I	(it				
HiPure Universal DNA Kit	IVD3018	100	Isolation total DN blood spots	NA from tissue / blood / body fluid / swab /dry		
LID TO OD! DAIA AA OVO	D311502	10	 Isolation total DN 	NA from 10ml blood and 1g tissue		
HiPure Tissue&Blood DNA Maxi Kit	D311503	50		Qiagen5119		
LIND TO ADD LIDNIA OVIVI	D311702	1 x 96	 Isolation total DN 	NA from 200µl blood, tissue, culture cells, swab using		
HiPure Tissue&Blood DNA 96 Kit	D311703	4 x 96	96 well bind plate	Qiagen6958		
MagPure Universal DNA Kit	IVD3102	200	 Isolation total DN 	NA from blood, buffy coat, tissue and other samples		
MagPure Universal RNA Kit	IVD3020	200	• Isolation total RN	IA from Blood/Tissue/Cells using magnetic beads		
	R413002	50	 Isolation total R1 	NA from 100mg lipid tissue, tissue, cell, plant, body		
HiPure Universal RNA Kit	R413003	250		and MagZol reagent Qiagen7480		
LID TU DAIA KU	R401102	50	using one column	IA from 20mg tissue, 150 mg plant, 5 x 10^6 cell		
HiPure Total RNA Kit	R401103	250				
	R416102	50	50 • Isolation total RNA from 1-1.5ml whol			
HiPure Blood RNA Mini Kit	R416103	250		A from 1-1.5ml whole blood Qiagen5230		
	D661101	48				
MagPure Blood RNA Kit	D661102	96	 Isolation total RN 	• Isolation total RNA from 200~300µl blood, buffy coat, body fluids		
	D661103	480				
Columns/Magnetic Beads						
MagPure Particles	C14100	100 ml	 Magnetic beads size silica beads 	for gDNA/RNA, viral DNA/RNA isolation, 1.5-5µm		
MagPure Particles N	C14110	100 ml	• Magnetic beads Clean Up, 0.2~2µ	s for viral DNA/RNA extraction, plasmid, DNA/RNA m silica beads		
HiPure DNA Mini Column I	C13100 1	000/Bag	 Small amount of glass fiber filter mer 	DNA adsorption column (2 layers of GF / F imported nbrane)		
HiPure RNA Mini Column	C13111 1	000/Bag	 Small amount of glass fiber filter mer 	RNA adsorption column (3 layers of GF / B imported nbrane)		
Machine						
MagMix 32 Nucleic acid Extractor	MagMix32	32 channel		acid extractor, 2 plates, 96 well plate, 8 magnetic sing 1-32 samples		
MagMix 96 Nucleic acid Extractor	MagMix96	96 channel	0 101	t nucleic acid extractor, 6 plates, 96 well plate, 96 es, processing 1-96 samples		

IVD3018 HiPure Universal DNA Kit



Introduction

This product is suitable for rapid extraction of total DNA from tissue, cells, blood, saliva, swabs, blood spots, semen and other clinical samples. DNA can be used directly for PCR, quantitative PCR, Southern Blot, test of virus DNA and so on.





Specification

Features	Specifications
Main Functions	Isolation total DNA from tissue / blood / body fluid / swab /dry spotssolation total DNA from FFPE tissue samples
Applications	PCR, qPCR, southern bolt and virus detection, etc.
Purification method	Mini spin column
Purification technology	Silica technology
Process method	Manual (centrifugation or vacuum)
Sample type	Tissue, cell, blood, saliva, swab, blood spot, semen and other clinical sam
Sample amount	Solid tissue: 110mg, Anticoagulant blood: 200µl
Yield	1 - 15µg
Elution volume	≥20µl
Time per run	30 - 60 minutes
Maxi volume of column	750µl
Binding yield of column	100µg

- High quality DNA meet a variety of downstream applications, including PCR, qPCR, enzyme digestion, hybridization,
- Fast without separation of leukocytes, organic extraction or ethanol precipitation
- Simple all nucleic acids can be obtained by direct digestion
- Wide applicability It can handle various liquid samples, animal tissues and cultured cells

IVD3102 MagPure Universal DNA Kit



Introduction

This product is suitable for rapid extraction of total DNA from tissue, cells, blood, saliva, swabs, blood spots, semen and other clinical samples. DNA can be used directly for PCR, quantitative PCR, Southern Blot, test of virus DNA and so on.





Specification

Features	Specifications
Main Functions	Isolation total DNA from blood, buffy coat, tissue and other s
Applications	Second generation sequencing, PCR, real time PCR, etc.
Purification method	Polydisperse magnetic beads
Purification technology	Magnetic beads technology
Process method	Manual or automatic
Sample type	Anticoagulant blood, concentrated blood, buffy coat, lymphc cultured cells
Sample amount	Whole blood :< 20,00; Saliva / swab:< 40,00; Tissue :< 20mg
Yield	0.1-50µg



Advantages

- High purity OD 260 / 280 : 1.7-1.9, OD 260 / 230 : 1.5 2.0
- Economy less than 50% of the price of Qiagen
- High yield most optimal process , ensuring the recovery up to 90%
- Strong processing ability samples including animal blood, cultured cells, animal tissues, etc.



Principle

This product is based on the purification method of high binding magnetic particles. The sample is lysed and digested under the action of lysate and protease. DNA is released into the lysate. After adding magnetic particles and binding solution, DNA will be adsorbed on the surface of magnetic particles, and impurities such as proteins will be removed without adsorption. The adsorbed particles were washed with washing solution to remove proteins and impurities, washed with ethanol to remove salts, and finally DNA was eluted by Elution Buffer.

IVD3020 MagPure Universal RNA Kit



Introduction

This kit is suitable for high-throughput extraction of total RNA from cultured cells, cell suspensions, animal tissues, conventional fungi and plant tissues. The kit is based on superparamagnetic magnetic particle purification technology. The extraction process does not require the use of toxic phenolic chloroform extraction or time-consuming alcohol precipitation. The whole extraction process only takes 60 minutes. The obtained RNA can be directly used in RT-PCR, fluorescence quantification, second-generation sequencing and viral RNA detection and so on. It is suitable to use on 32/48/96 channel nucleic acid extractors (such as KingFisherFle, MagMix32, MagMix 96) and pipetting workstation (Hamilton, Tican) for automatic extraction.





Specification

Features	Specifications
Main Functions	Isolation total RNA from tissue, cell
Applications	RT-PCR, cDNA synthesis, second generation sequencing
Purification method	Polydispersemagnetic beads
Purification technology	Magnetic beads technology
Process method	Manual or automatic
Adaptive instrument	Nucleic acid extractor, pipetting workstation
Sample type	Tissues, cells, lymphocytes and other clinical sample
Sample amount	Cells grown insuspension: ≤1 x 10 ⁷ Animal tissue: ≤20mg Plant tissue: ≤100mg Whole blood: ≤1.5ml
Yield	2-50µg
€	



- High purity OD260 / 280 : 1.9-2.0, OD 260 / 230 : 1.5-2.0
- Economy less than 50% of the price of Qiagen and other imported products
- Automatic extraction without manual participation, saving time and effort
- Universal suitable for various clinical samples

Magen supply two series of viral/pathogen nucleic acid extraction kits, HiPure and MagPure. HiPure Viral Nucleic Acid Kits based on silica spin column technology, extract viral/pathogen DNA/RNA from plasma, serum, non-cells viral, ect biology samples rapidly. Users can get DNA/RNA from different samples in 30 min. Process contains lysis, column combining, elution, and at last get DNA/RNA by nuclease-free water elution.

MagPure viral/pathogen nucleic acid kit uses magnetic beads technology getting viral/pathogen DNA/RNA from different source of biology samples in high-throughput. It can be used with both manual operation and automatic extraction workstation like BeckMek Tican, Hamilton, Cliper, Abbott M2000, Etc. Magen also design pre-mixed reagent kits specially for KingFisher and Magen automatic extraction machines. During covid-19, Magen had supplied **over 100 million preps** viral kits all over the world, which manifested the reliability and stability of the product.

Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products
Viral/Pathogen DNA/RNA K	it				
HiPure Viral RNA Kit	R417102	50		• Extract viral RNA from 140µl non-cell/	low cell content samples
MITUIE VIIGI KINA NII	R417103	250			Qiagen52904
HiPure Viral RNA/DNA Kit	IVD4173	100		• Extract viral RNA/DNA from 200μl no	on-cell/low cell content samples Qiagen57704
HiPure Pathogen RNA/DNA Kit	IVD4179	50		 Extract viral RNA/DNA from samples background nucleic acid 	for mNGS, remove
MagPure Viral DNA/RNA Kit	IVD5412	200		 Extract viral DNA/RNA from 200μl no by magnetic beads 	on-cell/low cell content samples Life:Am 18365
MagPure Pathongen DNA/RNA Kit	IVD6672	200		Extract total pathogen from non-cell/lof or PCR downstream application	w cell content biological samples Life: A36716
MagPure Pathogen DNA/RNA Kit C	R667202C	96		 Extract Pathogen RNA/DNA from sam Remove background nucleic acid, reco 	, ,
Columns/Magnetic Beads					
MagPure Particles	C14100	100 ml		 Magnetic beads for gDNA/RNA, viral size silica beads 	DNA/RNA isolation, 1.5-5μm
MagPure Particles N	C14110	100 ml		 Magnetic beads for viral DNA/RNA e Clean Up, 0.2~2μm silica beads 	xtraction, plasmid, DNA/RNA
HiPure Viral Mini Column	C13112 10)00/Bag		Small amount of virus total nucleic acid GF / F imported glass fiber filter members.	
HiPure DNA Mini Column I	C13100 10)00/Bag		 Small amount of DNA adsorption colunglass fiber filter membrane) 	nn (2 layers of GF / F imported
HiPure RNA Mini Column	C13111 10)00/Bag		 Small amount of RNA adsorption colum glass fiber filter membrane) 	nn (3 layers of GF / B imported
Machine					
MagMix 32 Nucleic acid Extractor	MagMix32 (32 channe	ls	 Small nucleic acid extractor, 2 plates, 9 sleeves, processing 1-32 samples 	6 well plate, 8 magnetic
MagMix 96 Nucleic acid Extractor	MagMix96	96 channe	ls	 High throughput nucleic acid extractor, magnetic sleeves, processing 1-96 sam 	·

IVD5412 MagPure Viral DNA/RNA Kit

- IVD5412-F-96 IVD5412 prepacked kit for 96 channel extractor - IVD5412-TL-96 IVD5412 prepacked kit for 32/48 channel extractor



Introduction

This product is suitable for extracting total viral nucleic acid from cell-free/low-content cell biological samples such as body fluids, serums, plasma, soaking solutions, tissue homogenate supernatant, and culture supernatant. The Purified DNA/RNA is used for RT-PCR and PCR detection.





Specification

Features	Specifications
Main Functions	Extract viral DNA/RNA from 200μl samples by magnetic beads
Applications	RT-PCR, PCR, NGS
Purification method	Polydisperse magnetic beads
Purification technology	Magnetic beads technology
Process method	Manual or automatic
Adaptive instrument	Nucleic acid extractor, pipetting workstation
Sample type	Tissues, cells, lymphocytes and other clinical sample
Sample amount	200μΙ



- Fast several samples can be extracted in 40 minutes by column method
- High quality high purity total RNA / DNA can be directly used in various sensitive downstream applications
- Safe no phenol chloroform extraction required
- Sensitive DNA/RNA can be recovered at the level of PG

R6672C MagPure Pathogen DNA/RNA Kit C



Introduction

This kit is suitable for extracting total pathogen nucleic acid from a variety of clinical samples(including serum and plasma). The kit is based on super paramagnetic particles purification technology. Purified DNA/RNA is ready for downstream applications such as Real Time PCR, biochip analysis, NGS and other related experiments.



Specification

Features	Specifications
Main Functions	Extract Pathogen RNA/DNA from 0.5.5ml whole blood, plasma, serum, body fluid, homogenate suspension, culture solution, cell suspension, soaking solution or concentrate pathogen solution mNGS application, remove host background nucleic acid.
Applications	Real Time PCR, biochip analysis, NGS
Products	Pathogen DNA / RNA
Purification method	Polydisperse magnetic beads
Purification technology	Magnetic beads technology
Process method	Manual or automatic
Adaptive instrument	Nucleic acid extractor, pipetting workstation
Sample type	whole blood, plasma, serum, body fluid, homogenate suspension, culture solution, cell suspension, soaking solution or concentrate pathogen solution
Sample amount	0.5 - 1.5 ml



Related Product

IVD6672 MagPure Pathogen DNA/RNA Kit

---Extract total pathogen nucleic acid from cell-free/low-content cell biological samples such as body fluids, serums, plasma, tissue homogenate supernatant.

Recommend used for PCR application, substitute to Thermo Fisher: AM18365

Product Name	Cat #	Preps	Price (\$) Feature	Substitute Products
Plant DNA/RNA Kit				
LID CEDI LONIA IZU	D316402	50	 Isolation total DNA from 100 	mg simple plant without chloroform
HiPure SF Plant DNA Kit	D316403	250		Qiagen691
HiPure Plant DNA Mini Kit	D318702	50	 Isolation total DNA from 150) ma plant and fungal tissue
MIFUIE FIGNI DINA MINI NII	D318703	250	• Isolation folds 21 Villotti 100	ing plan and longar mode
LIED DI CONTATE	R415102	50	 Isolation total RNA from 150 	mg plant using two columns
HiPure Plant RNA Kit	R415103	250	(gDNA removed column)	Qiagen749
	D635101	48		
MagPure Plant DNA Kit	D635102	96	 Isolation total DNA from 50-1 	100 mg plant, fungal tissue
	D635103	5x96		
	D635201	48		
MagPure Seed DNA Kit	D635202	96	 Isolation total DNA from 50-3 and seed 	100 mg easy-grinded plant (tender leaf)
	D635203	5x96	did seed	
	D664101	48		
MagPure Plant RNA Kit	D664102	96	 Isolation total RNA from 50m 	g plant using magnetic particles
	D664103	480		
Columns/Magnetic Beads				
MagPure Particles	C14100	100 ml	 Magnetic beads for gDNA/RI size silica beads 	NA, viral DNA/RNA isolation, 1.5-5μm
MagPure Particles N	C14110	100 ml	 Magnetic beads for viral DN Clean Up, 0.2~2μm silica bead 	A/RNA extraction, plasmid, DNA/RNA
HiPure DNA Mini Column I	C13100 1	000/Bag	 Small amount of DNA adsorpglass fiber filter membrane) 	tion column (2 layers of GF / F imported
HiPure RNA Mini Column	C13111 1	000/Bag	 Small amount of RNA adsorpt glass fiber filter membrane) 	ion column (3 layers of GF / B imported
Machine				
MagMix 32 Nucleic acid Extractor	MagMix32	32 channe	 Small nucleic acid extractor sleeves, processing 1-32 sample. 	, 2 plates, 96 well plate, 8 magnetic
MagMix 96 Nucleic acid Extractor	MagMix96	96 channe	 High throughput nucleic acid magnetic sleeves, processing 1-9 	d extractor, 6 plates, 96 well plate, 96

D3187 HiPure Plant DNA Mini Kit



Introduction

HiPure Plant DNA Mini Kit supplies a simple and rapid extraction of genomic DNA from different plant samples. The kit is based on silica gel column and CTAB lysis purification technology. The whole extraction process is only 30-50 minutes. Purified DNA can be used directly for PCR, SSR, AFLP, RAPD and Southern Blot, etc.



Specification

Features	Specifications
Main Functions	Isolation total DNA from 150 mg plant and fungal tissue
Applications	PCR, SSR, AFLP, RAPD and southern blot, etc.
Purification method	Mini spin column
Purification technology	Silica technology
Process method	Manual (centrifugation or vacuum)
Sample type	Fresh / frozen plant samples, driedplant / seed samples
Sample amount	Fresh / frozen plant samples: 50 - 150 mg Dried plant / seed samples: 15 - 40 mg
Elution volume	≥40µl
Time per run	30 - 50 minutes
Maxi volume of column	800 _µ I
Binding yield of columr	100µg



Principles

This product is based on silica column purification. The sample is lysed with CATB Buffer. DNA is released into the lysate. Cell debris, precipitated proteins and polysaccharides are removed by chloroform extraction. After adjust the binding condition, transfer to an adsorption column. DNA is adsorbed on the membrane, while protein is not adsorbed and is removed with filtration. After washing proteins and other impurities, nucleic acid was finally eluted with low-salt buffer (10mm Tris, pH9.0, 0.5mm EDTA).

D6351 MagPure Plant DNA Kit



Introduction

MagPure Plant DNA Kit supplies a simple and rapid extraction of genomic DNA from different plant pieces and tissues. The kit is based on superparamagnetic particles purification technology, no phenolchloroform extraction or alcohol precipitation. The whole extraction only takes 60 minutes. This kit can be used on different automatic extraction machines like KingFisher ML, KingFisher Flex and KingFisher Duo. Purified DNA can be used directly for PCR, quantitative PCR, southern blot, hybridization, and transgenosis detection.





Specification

Features	Specifications
Main Functions	Isolation total DNA from 50-100 mg plant, fungal tissue
Applications	PCR, transgene detection, fluorescence quantitative PCR, southern blot, SNP site analysis, etc.
Purification technology	Magnetic beads technology
Process method	Manual or automatic
Sample type	Conventional economic plant samples
Sample amount	Fresh / frozen plant samples:≤100 mg Dried plant / seedsamples: ≤20 mg
Elution volume	≥50µl
Time per run	≤60 minutes



Principles

This product is based on the purification method of high binding magnetic particles. The sample is lysed and digested under the action of lysate and Protease. DNA is released into the lysate. After adding magnetic particles and binding solution, DNA will be adsorbed on the surface of magnetic particles, and impurities such as proteins will be removed without adsorption. The adsorbed particles were washed with washing solution to remove proteins and impurities, washed with ethanol toremove salts, and finally DNA was eluted by Elution Buffer.

Magen DNA micro kit is suitable for rapid extraction of trace DNA from blood, tissue, blood stain, seminal spots, urine, and other trace samples. It has been designed to improve the yield, concentration, and purity of DNA isolated from trace samples such as forensic samples.





Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Product
Forensic Sample DNA Kit					
HiPure DNA Micro Kit	D312502 D312503	50 250		 Isolation total DNA from 1-10µl blood, <2mg to widely used in Forensic Detecting 	iissue and other samples, Qiagen56304
MagPure DNA Micro Kit	IVD3101	200		 Isolation total DNA from 1-100µl blood, FFPE samples using high bind beads 	, tissue and other
Columns/Magnetic Beads					
MagPure Particles	C14100	100 ml		 Magnetic beads for gDNA/RNA, viral DNA/ size silica beads 	'RNA isolation, 1.5-5μm
MagPure Particles N	C14110	100 ml		 Magnetic beads for viral DNA/RNA extraction Clean Up, 0.2~2µm silica beads 	on, plasmid, DNA/RNA
HiPure DNA Micro Column	C13011 10	000/Bag		 Micro amount of DNA adsorption column (3 kglass fiber filter membrane) 	ayers of GF / F imported
HiPure DNA Mini Column I	C13100 10	000/Bag		 Small amount of DNA adsorption column (2 loglass fiber filter membrane) 	yers of GF / F imported
Machine					
MagMix 32 Nucleic acid Extractor	MagMix32	32 channe		• Small nucleic acid extractor, 2 plates, 96 sleeves, processing 1-32 samples	well plate, 8 magnetic
MagMix 96 Nucleic acid Extractor	MagMix96	96 channe		High throughput nucleic acid extractor, 6 pla magnetic sleeves, processing 1-96 samples	ates, 96 well plate, 96

D3125 HiPure DNA Micro Kit



Introduction

This product provides fast and easy methods for purification of total DNA for reliable PCR and Southern blotting. Total DNA(e.g., genomic, viral, mitochondrial) can be purified from small volume of blood, tissue and dry blood spots.





Specification

Features	Specifications
Main Functions	Isolation total DNA from -110 μ l blood, <2mg tissue and other samples
Applications	PCR, southern bolt and virus detection, etc.
Purification method	Mini spin column
Purification technology	Silica technology
Process method	Manual (centrifugation or vacuum)
Sample type	Animal tissues, blood spots, swabs and various forensic samples
Sample amount	Blood: 1-10µl, Tissue:<2mg



Principles

This product is based on silica Column purification. The sample is lysed and digested with lysate and protease, DNA is released into the lysate. Transfer to an adsorption column. Nucleic acid is adsorbed on the membrane, while protein is not adsorbed and is removed with filtration. After washing proteins and other impurities, nucleic acid was finally eluted with low-salt buffer (10mmTris, pH9.0, 0.5mm EDTA).



- Fast several samples can be extracted in 20 minutes (after digestion)
- High purity purified DNA can be directly used in various downstream applications
- High recovery DNA can be recovered at the level of PG
- Good repeatability silica technology can obtain ideal results every time

Product Name	Cat #	Preps	Price (\$)	Feature	Substitute Products
Plant DNA/RNA Kit					
HiPure Stool DNA Kit	D314102	50		• Isolation total DNA from 50-100mg stool sam	oles
	D314103	250		-	
HiPure Soil DNA Kit	D314202	50		• Isolation DNA from 200-500mg soil sample	0. 4701
	D314203	250			Qiagen4701
HiPure Bacterial DNA Kit	D314602	50		• Isolation bacterial DNA from cultures, food and	d other samples
	D314603	250			
HiPure Microbiome DNA Kit	D314802	50		\bullet Isolation gDNA from biological sample and re	move host DNA
THE MICIODIOTHE DINA KII	D314803	250			Qiagen5170
	D635601	48			
MagPure Soil DNA Kit	D635602	96		• Isolation total DNA from 250-500mg soil	Qiagen4710
	D635603	480			
	D636401	48			
MagPure Stool DNA Kit	D636402	96		• Isolation total DNA from 100-150mg stool san	nples
	D636403	480			
Columns/Magnetic Beads					
MagPure Particles	C14100	100 ml		 Magnetic beads for gDNA/RNA, viral DNA/R size silica beads 	NA isolation, 1.5-5μm
MagPure Particles N	C14110	100 ml		 Magnetic beads for viral DNA/RNA extraction Clean Up, 0.2~2μm silica beads 	n, plasmid, DNA/RNA
HiPure DNA Mini Column I	C13100 10	DOO/Bag		 Small amount of DNA adsorption column (2 lay glass fiber filter membrane) 	ers of GF / F imported
HiPure DNA Mini Column II	C13110 10	000/Bag		 Small amount of DNA adsorption column (2 lay glass fiber filter membrane) 	ers of GF / F imported
HiPure RNA Mini Column	C13111 10	000/Bag		 Small amount of RNA adsorption column (3 layinglass fiber filter membrane) 	ers of GF / B imported
Machine					
MagMix 32 Nucleic acid Extractor	MagMix32	32 channe		• Small nucleic acid extractor, 2 plates, 96 valeeves, processing 1-32 samples	well plate, 8 magnetic
MagMix 96 Nucleic acid Extractor	MagMix96	96 channe		High throughput nucleic acid extractor, 6 pla magnetic sleeves, processing 1-96 samples	tes, 96 well plate, 96

D3142 HiPure Soil DNA Kit



Introduction

This product allows rapid and reliable isolation of high-quality genomic DNA from various soil samples. Up to 500 mg soil samples can be processed in 60 minute. The system combines the reversible nucleic acid binding properties of HiPure matrix with the speed and versatility of spin column technology to eliminate PCR inhibiting compounds such as humic acid from soil samples. Purified DNA is suitable for PCR, restriction digestion, and next-generation sequencing. There are no organic extractions thus reducing plastic waste and hands-on time to allow multiple samples to be processed in parallel.





Specification

Features	Specifications
Main Functions	Isolation DNA from 20500mg soil sample
Applications	PCR, southern blot and enzyme digestion, etc.
Purification method	Mini spin column
Purification technology	Silica technology
Process method	Manual (centrifugation or vacuum)
Sample type	Soil
Sample amount	200500mg
Elution volume	≥30µl
Time per run	≤60minutes
Maxi volume of column	800 _µ I
Binding yield of columr	100µg



- Fast several samples can be extracted in 40 minutes (after digestion)
- High purity purified DNA can be directly used in various downstream applications
- Good repeatability silica technology can obtain ideal results every time
- High recovery DNA can be recovered at the level of PG

D6364 HiPure Soil DNA Kit



Introduction

MagPure Stool DNA Kit is specially designed for high throughput DNA extraction from stool samples. It can get high purity microbial DNA from stool samples (200mg). This kit is based on magnetic beads purification and unique inhibiting factors adsorption technology, no phenol-chloroform extraction or alcohol precipitation. It can adsorb humic acid and other inhibiting factors in the solution efficiently. DNA can be directly used for downstream applications such as PCR, Viral DNA testing, bacterial DNA testing, etc.





Specification

Features	Specifications
Main Functions	Isolation total DNA from 19050mg stool samples
Applications	PCR, southern blot and enzyme digestion, etc.
Purification technology	Magnetic beads technology
Process method	Manual or automatic
Sample type	Stool
Sample amount	100150 mg



Advantages

- Fast several samples can be extracted in 60 minutes (after digestion)
- High purity unique adsorbent can completely remove inhibitory factors
- High recovery DNA can be recovered at the level of PG



Articles

- [Nature Communications] Microalgae-based oral microcarriers for gut microbiota homeostasis and intestinal protection in cancer radiotherapy
- [Journal of Crohns & Colitis] Gut Epithelial-derived CXCL9 Maintains Gut Homeostasis Through Preventing Overgrown E.
- [Nature Communications] Inorganic nanosheets facilitate humoral immunity against medical implant infections by modulating immune co-stimulatory pathways.



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TÜRKİYE TEMSİLCİSİ



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