MagBeads Purification Kit

202308-11

MP BIOMEDICALS

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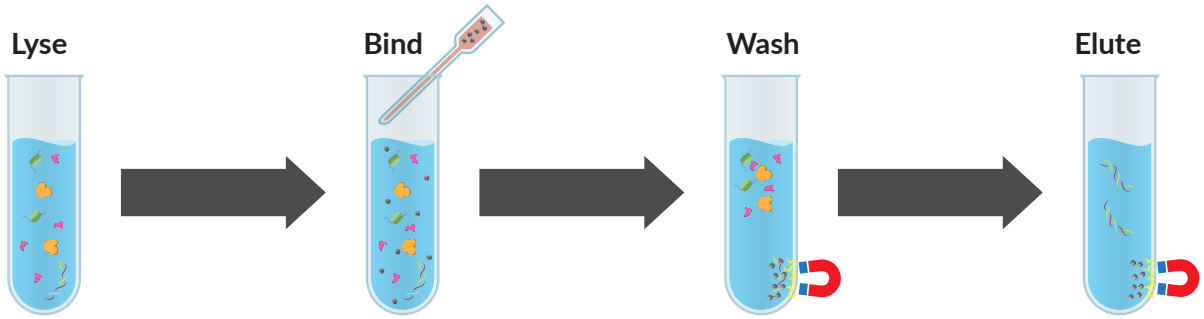
CONTENT PAGE

The MagBeads Kits employ a state-of-the-art nucleic acid purification method to extract high quality DNA/RNA. These kits eradicate the requirement for the phenol-chloroform method, replacing it with a magnetic bead-based purification technique that selectively binds DNA/RNA and eliminates the impurities.

The final eluted nucleic acid is ensured to be of high yield and ready to be used for various downstream applications, including end-point PCR, real-time qPCR, NGS, and more.

MAGBEADS PRINCIPLE



Samples containing target DNA/RNA and mixture of impurities.

Magnetic beads are added and bounded to target.

Bound molecules are separated by magnetic field. The remains are washed and removed.

Target nucleic acid is eluted from the magnetic beads and can be used in downstream applications.

COMMON NUCLEIC ACID EXTRACTION METHODS

Method	Spin Column	Magnetic Beads
Series	SPINeasy®	MagBeads
Technology	Spin column and reagents are utilized for nucleic acid purification via centrifugation method	Magnetic beads and reagents are utilized for nucleic acid purification
Technique	Sample is pre-treated and homogenized prior to loading into spin column. The column is washed, and the extracted DNA/RNA is eluted off from the column via centrifugation or vacuum manifold.	Sample is pre-treated and homogenized prior to mixing with magnetic beads. The magnetic beads are then washed, and the extracted DNA/RNA is dissociated from the beads.
Purity	High	High
Throughput	Low-medium	Medium-high
Advantage	• Fast and simple procedure • Ready to use kit format for improved convenience • Flexible for use with both centrifugation or vacuum-based systems for higher throughput	• High Throughput • No risk of column clogging • High yield and efficiency • Automatable on MPure aNAP systems
Recommended For	Most nucleic acid extraction	Medium to high throughput sample processing

MAGBEADS FASTDNA KIT FOR SOIL

Addressing soil sample variability is crucial during nucleic acid extraction, not to mention the presence of various contaminants. To avoid any degradation and increase extraction efficiency, the **MagBeads FastDNA Kit for Soil** could be used to eliminate such problems.

The **MagBeads FastDNA Kit for Soil** allows quick and efficient isolation of high-quality genomic DNA from soil in less than 60 mins. Samples are placed into Lysing Matrix E tubes and used with FastPrep® Instruments from MP Biomedicals to effectively lyse host cells as well as bacteria, fungi, viruses, protists, and other cells present in soil samples within 40 seconds. The kit is also compatible with most of the automated nucleic acid extraction instruments on the market or it can be operated manually. It consists of specially formulated reagents to eliminate humic acid, polysaccharides, phenolic compounds, and enzyme inhibitors from soil and thus allows for extraction of highly pure genomic DNA ready for PCR, restriction digestion, electrophoresis, and other desired applications.

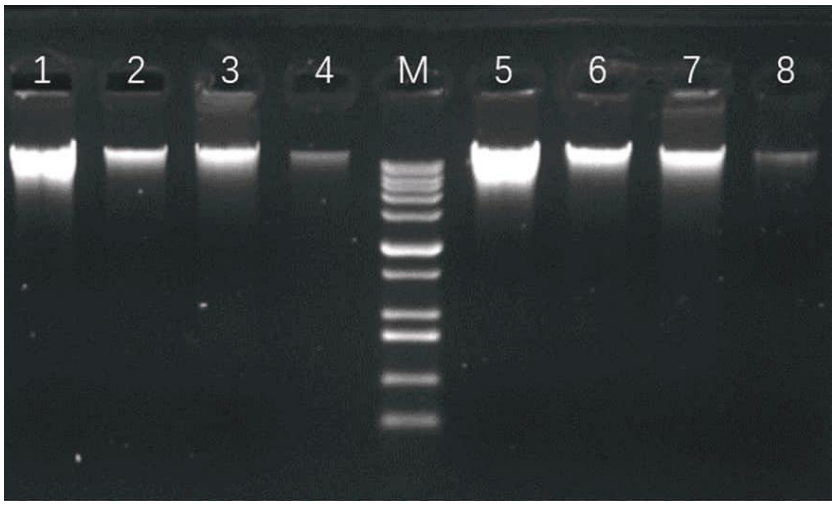
FEATURES

- Optimized for highly contaminated and low biomass soil types
- Consistent and high concentrations of pure DNA
- Inhibitor removal solution guarantees high level of purity, hence enabling it to be directly used for downstream applications
- Designed for both automated and manual extraction workflows, ensuring the fastest turnaround time

EXTRACTION RESULTS

Type of Soil Sample	Extraction Method	DNA Yield (ng/mg)	A260/280	A260/230
Organic Soil 100 mg	Automation	130.25	1.84	1.23
	Manual	196.08	1.98	1.08
Flowerbed Soil 100 mg	Automation	19.92	1.86	1.53
	Manual	24.43	1.85	1.09
Saline Soil 250 mg	Automation	11.75	1.87	1.51
	Manual	13.43	1.90	1.37
Desert Soil 250 mg	Automation	2.47	1.85	1.43
	Manual	2.97	1.91	0.81

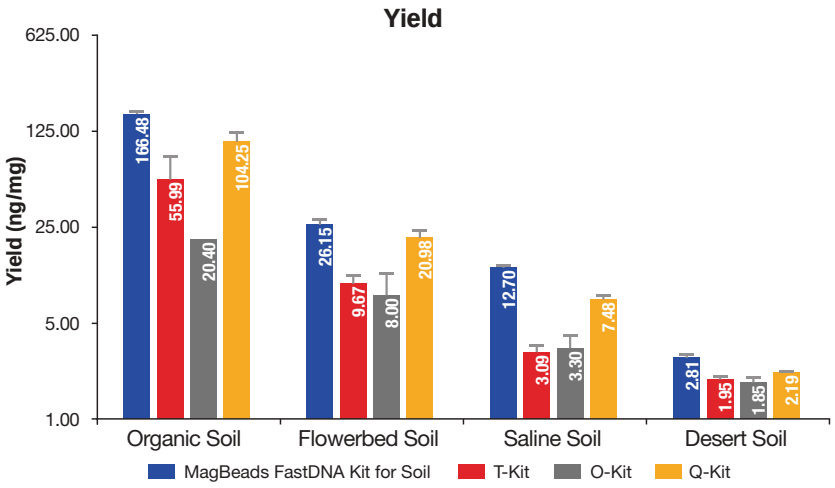
DNA yield and purity from different soil samples using MagBeads FastDNA Kit for Soil



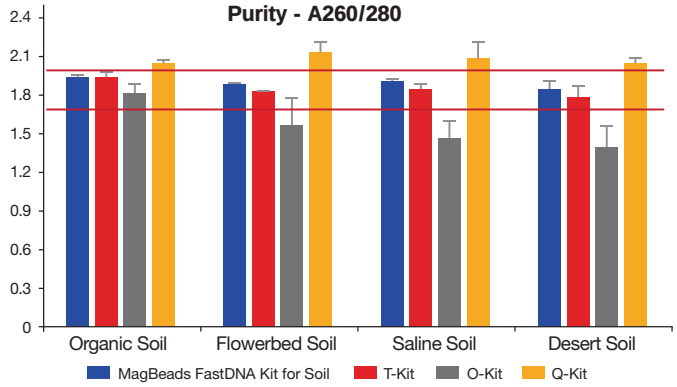
M: *1kb plus DNA ladder,* ***Lane 1-4:*** *Automation,* ***Lane 5-8:*** *Manual,*
Lane 1&5: *100 mg Organic Soil,* ***Lane 2&6:*** *100 mg Flowerbed Soil,*
Lane 3&7: *250 mg Saline Soil,* ***Lane 4&8:*** *250 mg Desert Soil*

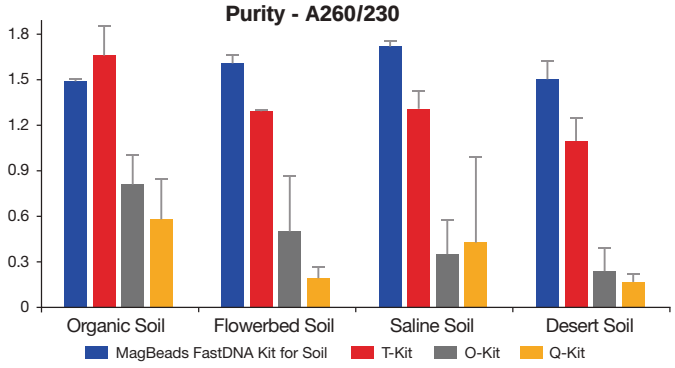
PERFORMANCE

DNA yield and purity from different soil samples using MagBeads FastDNA Kit for Soil



The **MagBeads FastDNA Kit for Soil** *was tested against three competitors' kits, it showed a higher yield across all samples.*





Purity was assessed by UV spectrophotometry. It consistently achieved high purity with the optimal ratio of 1.70 – 2.0 for A260/280 and >1.0 for A260/230.

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastDNA Kit for Soil	50 Preps	116561050
Magbeads FastDNA Kit for Soil (Ready-to-Use for MPure-32)	96 Preps	117033100
MagBeads FastDNA Kit for Soil (Ready-to-Use for MPure-96)	96 Preps	117034100

MAGBEADS FASTDNA KIT FOR FECES

The **MagBeads FastDNA Kit for Feces** allows quick and efficient isolation of high-quality genomic DNA from fresh or frozen human and animal feces in less than 60 minutes. Specially formulated buffers remove contaminants, while the magnetic beads ensure high yields of pure gDNA. It supports both manual and automated extraction methods, increasing work efficiency for downstream analyses like PCR, sequencing, and more.

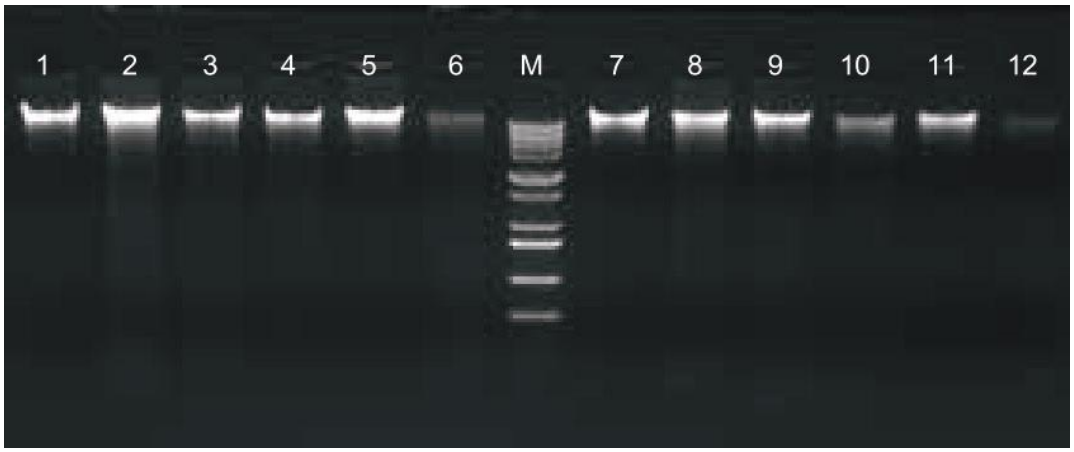
FEATURES

- Extracted DNA is intact and free from inhibitors
- Applicable for wide range of fecal samples including intestinal contents

EXTRACTION RESULTS

Type of Feces Sample	Extraction Method	DNA Yield (ng/mg)	A260/280	A260/230
Swine	Automation	106.98	1.94	1.93
	Manual	126.68	1.99	2.02
Mouse	Automation	99.33	1.96	2.40
	Manual	110.33	1.97	1.25
Human	Automation	110.32	2.00	1.71
	Manual	107.30	1.97	1.24
Chicken	Automation	52.17	1.90	1.48
	Manual	85.38	1.90	1.12
Bovine	Automation	53.82	1.72	1.07
	Manual	77.60	1.80	0.98
Elephant	Automation	22.18	1.81	1.46
	Manual	31.98	1.84	1.01

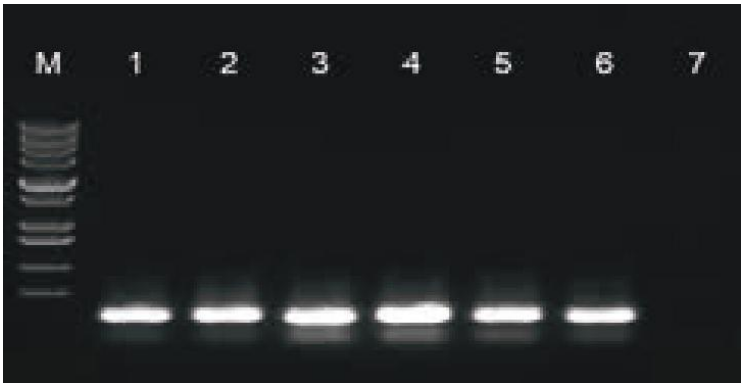
DNA yield and purity from different fecal samples extracted with MagBeads FastDNA Kit for Feces



M: *1kb plus DNA ladder,* ***Lane 1-6:*** *Manual,* ***Lane 7-12:*** *Automation,* ***Lane 1&7:*** *30 mg Swine Feces,* ***Lane 2&8:*** *Mouse Feces,* ***Lane 3&9:*** *30 mg Human Feces,* ***Lane 4&10:*** *150 mg Chicken Feces,* ***Lane 5&11:*** *150mg Bovine Feces,* ***Lane 6&12:*** *150mg Elephant Feces*

PERFORMANCE

PCR of extracted gDNA (top) and Restriction digestion of extracted gDNA (bottom) from different feces samples using MagBeads FastDNA Kit for Feces.



M:*1kb plus DNA ladder,* ***Lane 1:*** *Swine Feces,* ***Lane 2:*** *Mouse Feces,* ***Lane 3:*** *Human Feces,* ***Lane 4:*** *Chicken Feces,* ***Lane 5:*** *Bovine Feces,* ***Lane 6:*** *Elephant Feces,* ***Lane 7:*** *Negative Control*

M:*1kb plus DNA ladder,* ***Lane 1&2:*** *Swine,* ***Lane 3&4:*** *Mouse,* ***Lane 5&6:*** *Human,* ***Lane 7&8:*** *Chicken,* ***Lane 9&10:*** *Bovine,* ***Lane 11&12:*** *Elephant,* ***Lane 1/3/5/7/9/11:*** *Before digestion,* ***Lane 2/4/6/8/10:*** *After digestion*

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastDNA Kit for Feces, 50 preps	50 Preps	116570400
Magbeads FastDNA Kit for Feces (Ready-to-Use for MPure-32)	96 Preps	117033200
MagBeads FastDNA Kit for Feces (Ready-to-Use for MPure-96)	96 Preps	117034200

MAGBEADS FASTDNA KIT FOR BLOOD

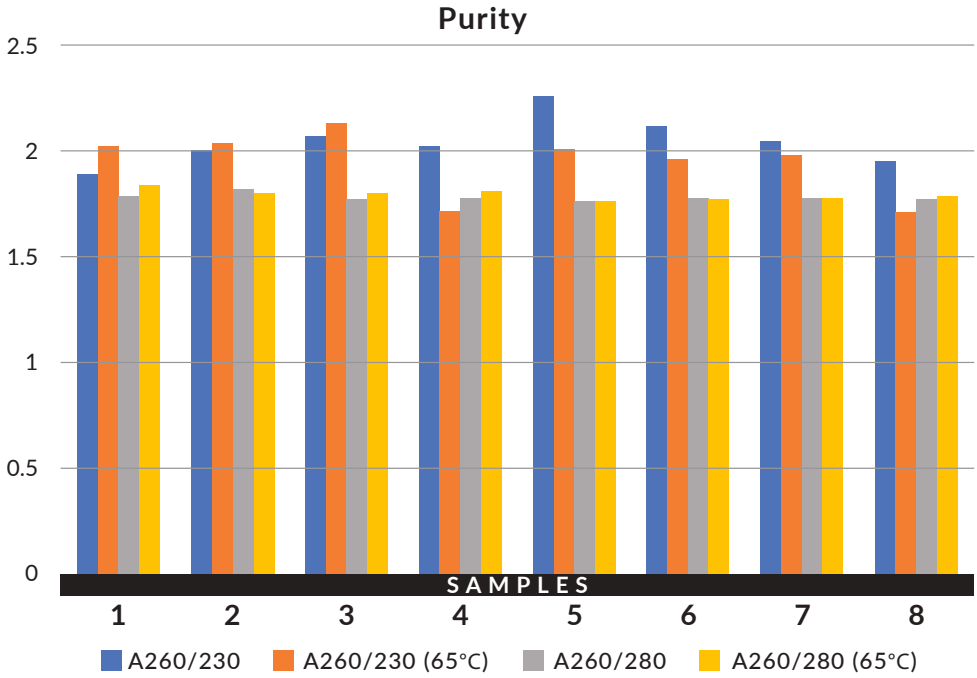
MagBeads FastDNA Kit for Blood is intended for purification of total DNA for reliable PCR and Southern blotting. Samples up to 200 µL can be processed and total DNA (e.g., genomic, viral, mitochondrial) can be purified from whole blood, plasma, serum, buffy coat, bone marrow, other body fluids, lymphocytes, cultured cells. **MagBeads FastDNA Kit for Blood** delivers fast and reliable results through the purification method of high binding magnetic particles.

FEATURES

- High binding affinity to capture DNA from various blood samples
- Save valuable time with polydisperse magnetic beads
- False positive/negative is minimized with proteinase K and RNase A

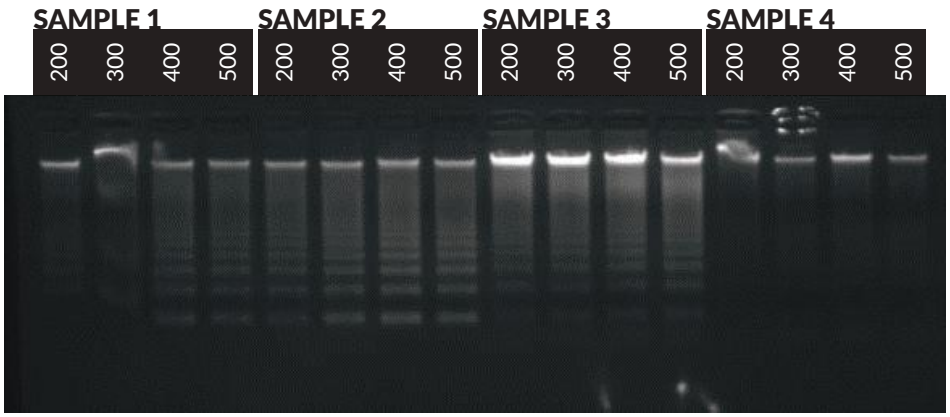
PERFORMANCE

DNA Purity of Blood Samples Extracted using MagBeads FastDNA Kit for Blood at Different Temperature.



Total of 8 fresh and frozen samples were subjected to extraction using the MagBeads FastDNA Kit for Blood. Each extraction used 200 µL as starting sample. The results show that temperature does not have a significant effect on purity.

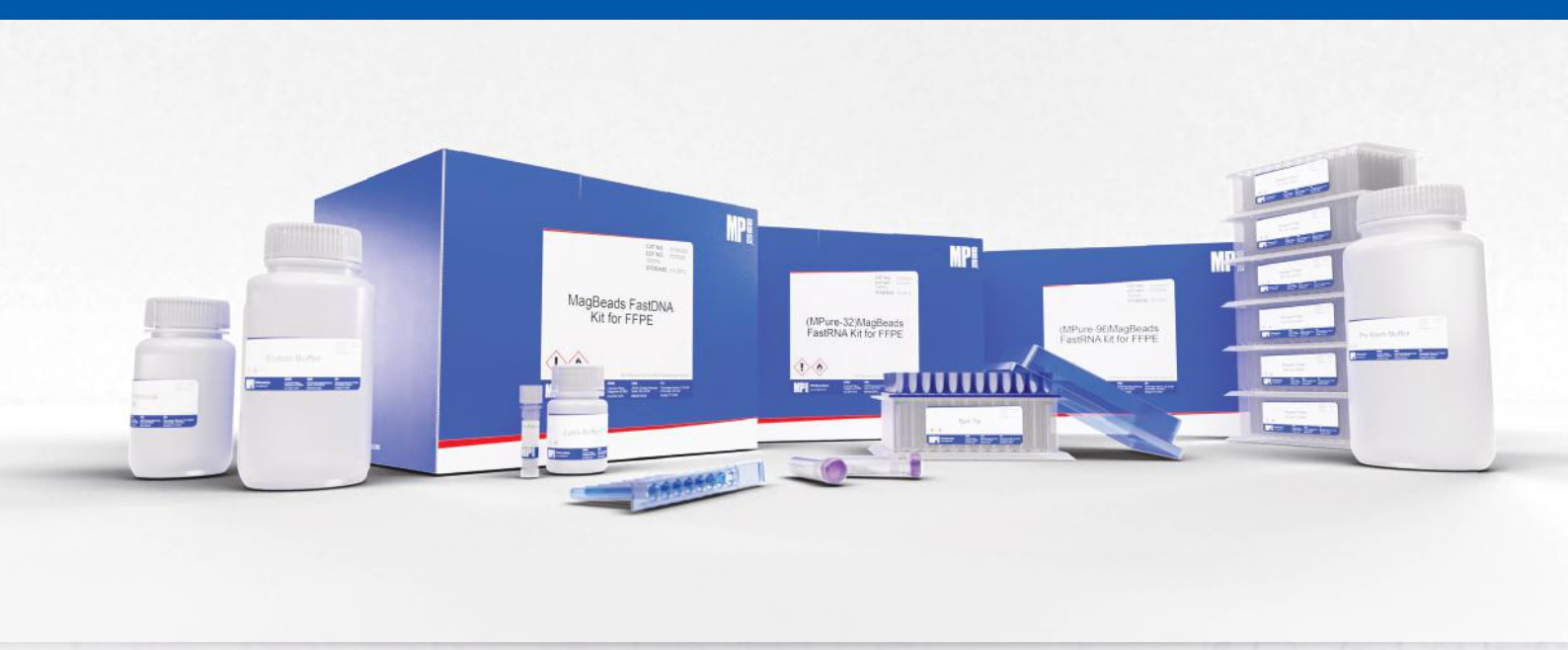
DNA Extraction Using MagBeads FastDNA Kit for Blood with Varied Lysis Buffer Volumes.



200µL, 300µL, 400µL, and 500µL of lysis buffer were introduced in addition to the initial 200µL of the sample in each well. The gel electrophoresis results revealed distinct, high-quality DNA bands under all conditions, thereby confirming the effectiveness of lysis buffer volumes ranging from 200µL to 500µL.

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastDNA for Blood	96 Preps	116574096
MagBeads FastDNA for Blood (Ready-to-Use for MPure-32)	96 Preps	117033700
MagBeads FastDNA for Blood (Ready-to-Use for MPure-96)	96 Preps	117034700



MAGBEADS FASTDNA KIT FOR FFPE

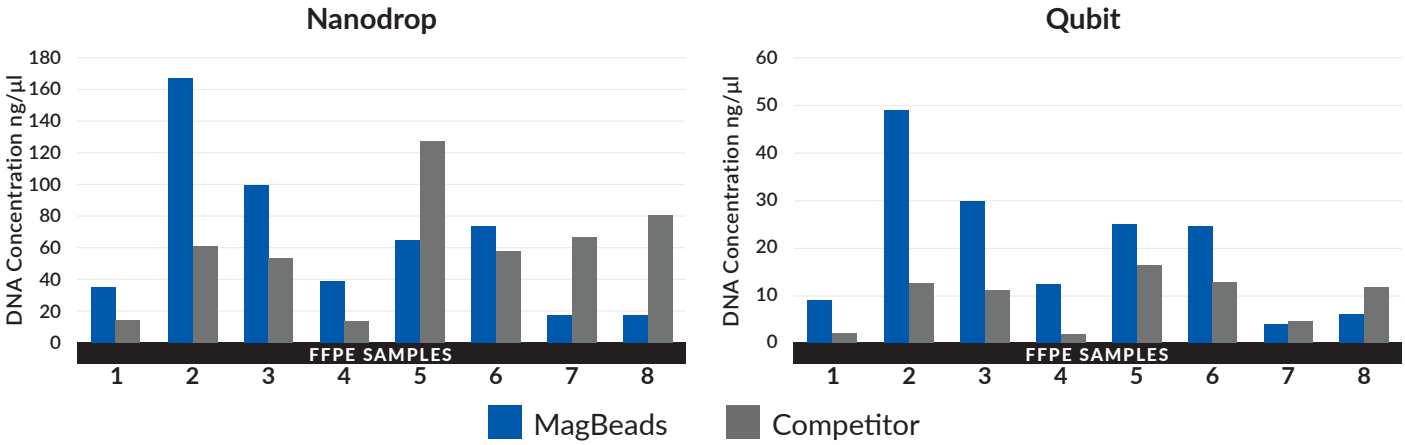
The **MagBeads FastDNA Kit for FFPE** is designed for purifying DNA from FFPE samples. The extraction can be accomplished through manual high salt binding, ethanol binding or automated MPure aNAP systems. High-salt binding is effective in removing pigments or polysaccharides from complex FFPE samples, thereby enhancing the purity of nucleic acid, and preventing blockages for further analysis. Ethanol mediated adsorption is optimal for improving nucleic acid yield.

FEATURES

- High yield of extracted DNA (with recovery rate of up to 90%)
- Various extraction methods are available to ensure the most optimal results
- High purity of extracted DNA (optimal A260/280 and A260/230 ratios)

PERFORMANCE

DNA concentration of FFPE samples extracted with MagBeads and competitor kit



*DNA extraction was performed using the **MagBeads FastDNA Kit for FFPE** and a competitor kit on 8 FFPE samples.*

Subsequently, the extracted DNA concentrations were measured using Nanodrop and Qubit. The data showed that the MagBeads FastDNA kit for FFPE yielded higher amounts of DNA as compared to the competitor kit. The average purity (not shown here) was similar for both kits, MagBeads: 1.815, Competitor: 1.795.

Cross Contamination Test for MagBeads FastDNA Kit for FFPE

Sample Type	96-Well	SRY Gene Ct Value	96-Well	SRY Gene Ct Value
Male	A1	22.7	A7	23.6
Female	B1	None	B7	None
Male	C1	23.2	C7	18.9
Female	D1	None	D7	None
Male	E1	25.3	E7	24.8
Female	F1	None	F7	None
Male	G1	23.2	G7	19.6
Female	H1	None	H7	None

*8 male and female tumor FFPE tissue samples were extracted using **MagBeads FastDNA Kit for FFPE**.*

Male and female samples were purposedly cross added during automated extraction. PC detection shows no amplification for SRY gene in female samples, hence no cross contamination was detected.

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastDNA Kit for FFPE	96 Preps	116576096
MagBeads FastDNA Kit for FFPE (Ready-to-Use for MPure-32)	96 Preps	117033800
MagBeads FastDNA Kit for FFPE (Ready-to-Use for MPure-96)	96 Preps	117034800

MAGBEADS FASTDNA KIT

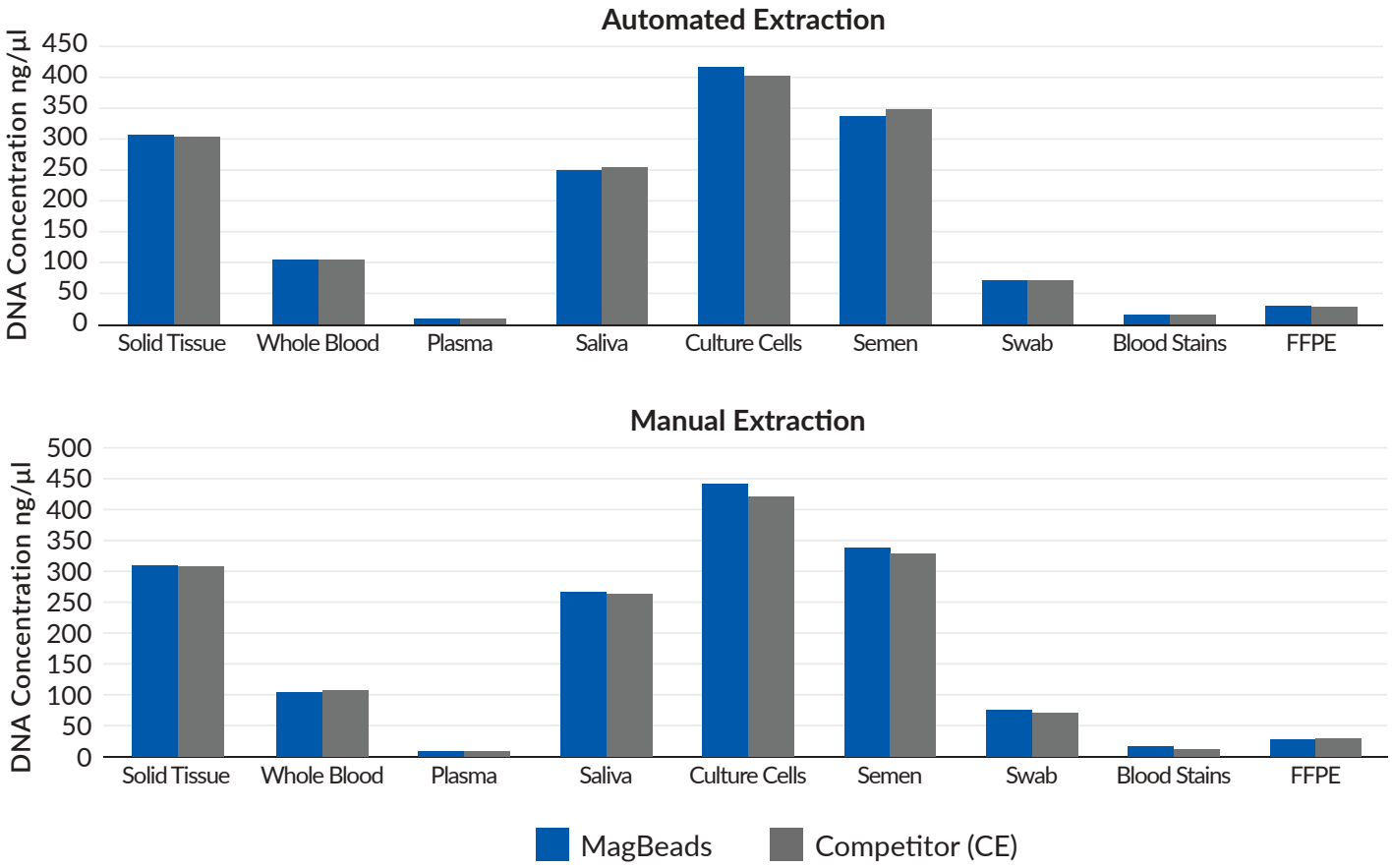
The **MagBeads FastDNA Kit** is a versatile and comprehensive solution for a wide range of sample types. **MagBeads FastDNA Kit** is intended for rapid extraction of DNA from tissue, cells, blood, saliva, swabs, blood spots, semen, and other clinical samples. Extracted DNA can be used directly for PCR, quantitative PCR, Southern Blot, detection of viral DNA and so on.

FEATURES

- Great versatility - suitable for a wide range of sample types
- High yield and purity, repeatable and consistent results
- High DNA integrity, even from samples that are hard-to-process

PERFORMANCE

Automated and Manual Extraction of various sample types using MagBeads FastDNA Kit



MagBeads FastDNA Kit *can extract DNA from multiple types of biological samples, and is compatible for manual operation or nucleic acid extraction machine.*

The extraction efficiency is comparable to competitor product A which is CE certified.

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastDNA Kit	192 Preps	116575192
MagBeads FastDNA Kit (Ready-to-Use for MPure-32)	96 Preps	117033600
MagBeads FastDNA Kit (Ready-to-Use for MPure-96)	96 Preps	117034600

MAGBEADS FAST CIRCULATING DNA KIT

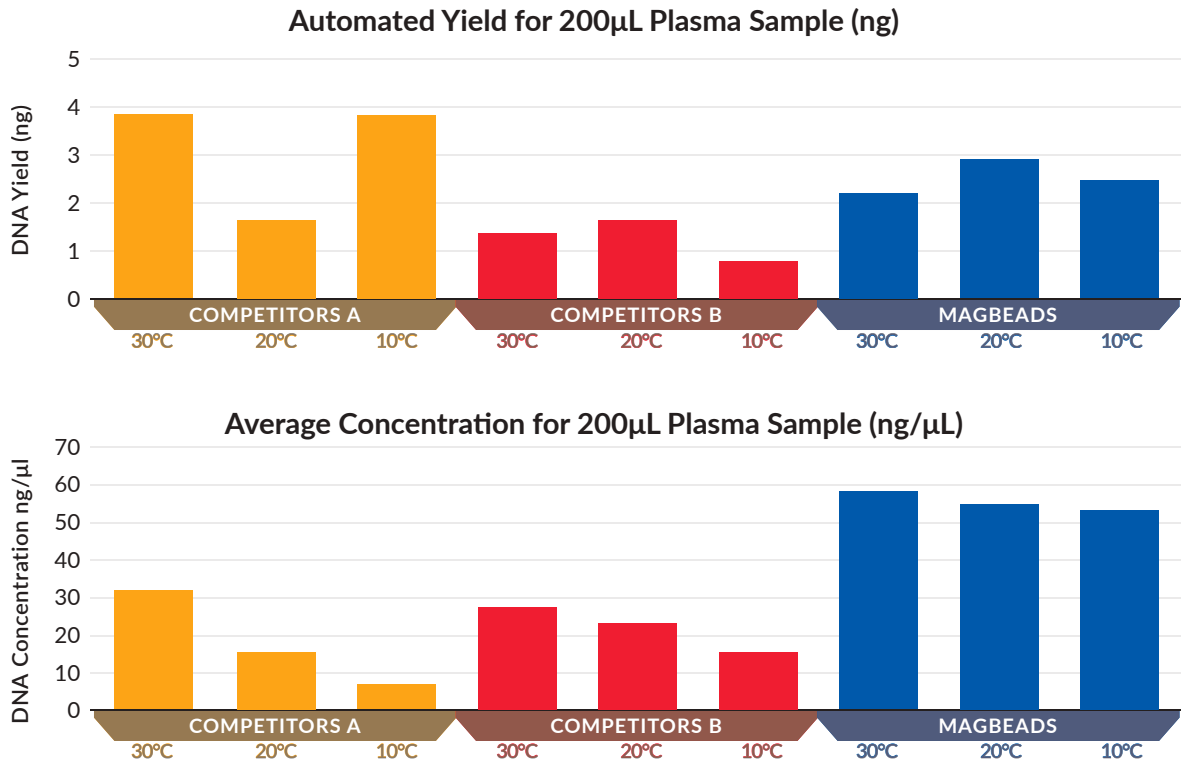
Circulating DNA or cfDNA are fragments of nucleic acids that flow into the bloodstream due to cell death. They typically carry important genetic information from the originated cells. Thus, making them invaluable resources to cancer diagnosis, liquid biopsy, patient organ health, and more. **MagBeads Fast Circulating DNA Kit** is designed for purification of high-quality circulating DNA (cfDNA) from cell-free body fluids (such as plasma and serum).

FEATURES

- Wide range sample processing volume of 0.2 – 0.6 mL
- Flexibility to choose either automated or manual purification workflow
- High quality carrier RNA to help with DNA stability and yield

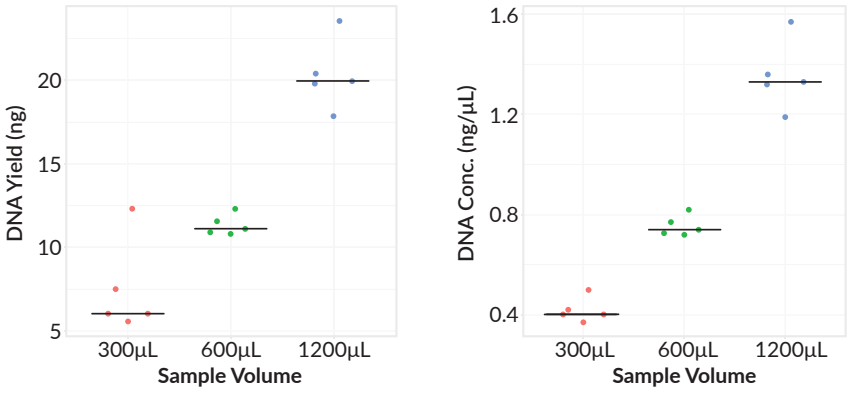
PERFORMANCE

Comparison of yield and concentration of extracted DNA among Competitor A, Competitor B, and MagBeads Fast Circulating DNA kit.



The figure shows the DNA yield (top) and concentration (bottom) results from 200µL plasma samples from pregnant women. The concentration of extracted DNA was significantly higher for MagBeads Fast Circulating DNA Kit at three working temperatures (10°C, 20°C, and 30°C).

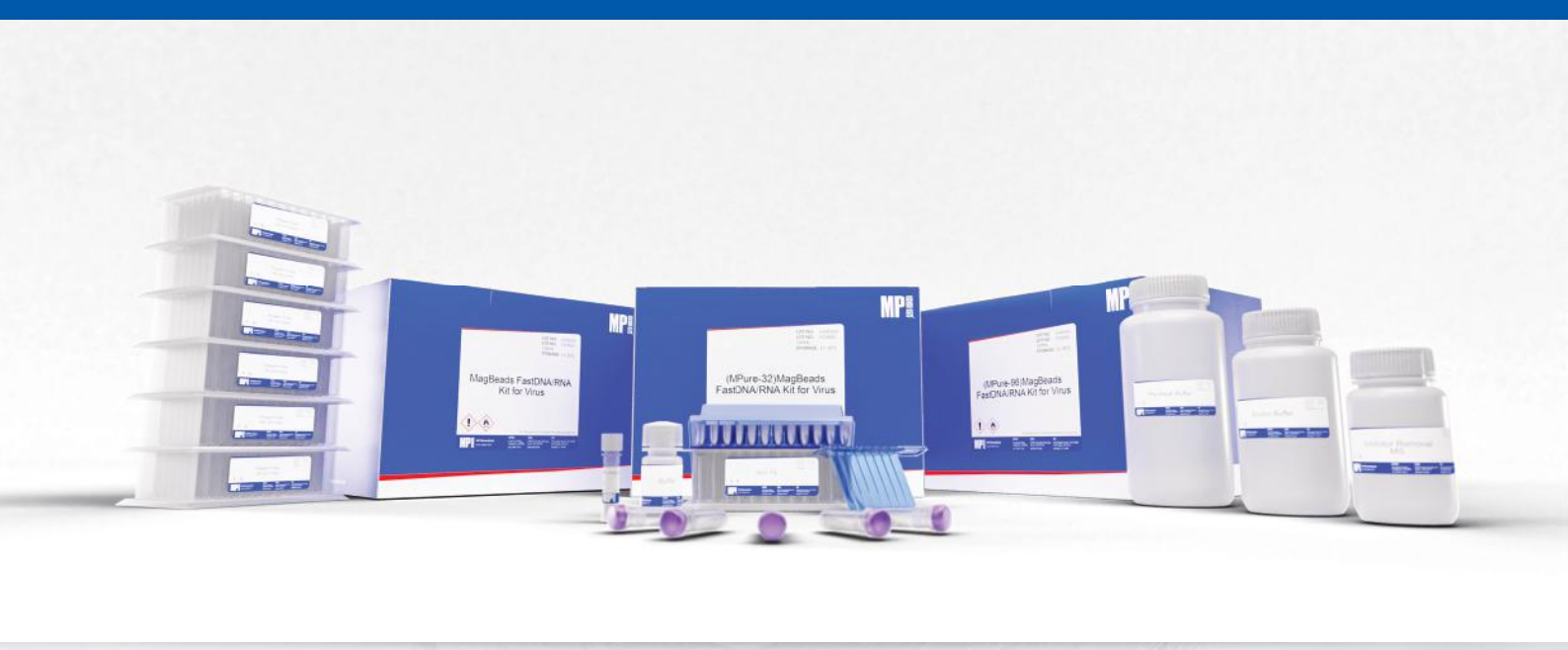
Relationship between DNA Amount/Concentration and Sample Volume (extracted using MagBeads Fast Circulating DNA Kit)



cfDNA from five pregnant women's plasma sample were extracted using **MagBeads Fast Circulating DNA Kit**. *DNA amounts from 300µL, 600µL, and 1.2mL sample volumes were eluted with 15µL buffer. Results show a reliable linear relationship between the DNA yield/concentration and the sample volumes (300µL and 600µL and 1.2mL).*

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads Fast Circulating DNA Kit	192 Preps	116577192
MagBeads Fast Circulating DNA Kit (Ready-to-Use for MPure-32)	96 Preps	117033900
MagBeads Fast Circulating DNA Kit (Ready-to-Use for MPure-96)	96 Preps	117034900



MAGBEADS FASTDNA/RNA KIT FOR VIRUS

The primary challenge faced by the market is the limited availability of simultaneous extraction kits for viral DNA/RNA, and even when available, the results often remain compromised. MagBeads FastDNA/RNA Kit for Virus is designed to effectively extract total viral nucleic acid from cell-free/low-content cell biological samples. PK/Carrier RNA is included in the kit to optimize precipitation and monitor the extraction efficiency. The purified DNA/RNA obtained through this process is suitable for RT-PCR and PCR detection purposes.

FEATURES

- High yield of extracted DNA/RNA
- Reliable extraction from low-copy viral samples
- Extraction time is under 40 minutes, process can be sped up with MPure aNAP system
- Safe - does not contain hazardous chemicals, e.g., phenol chloroform

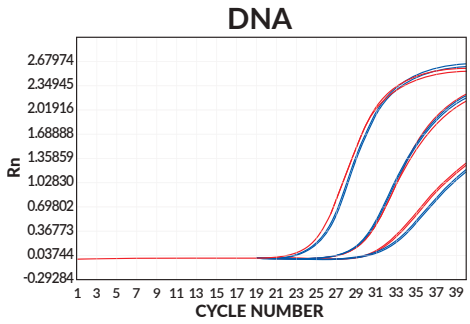
SAMPLE TYPES

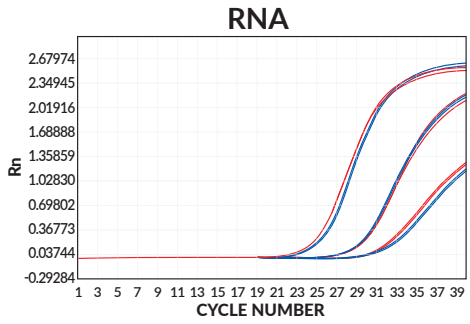
- Body fluids
- Serum/plasma
- Soaking solutions
- Tissue homogenate supernatant
- Culture supernatant

PERFORMANCE

Comparison of Ct Values from Viral DNA/RNA extracted using MagBeads FastDNA/RNA Kit for Virus and Competitor A.

Manual Extraction

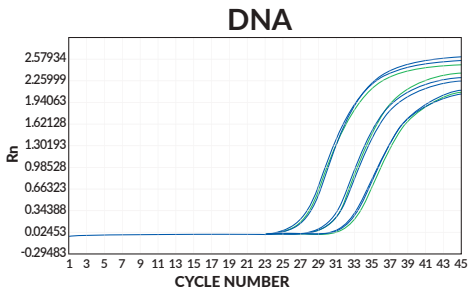


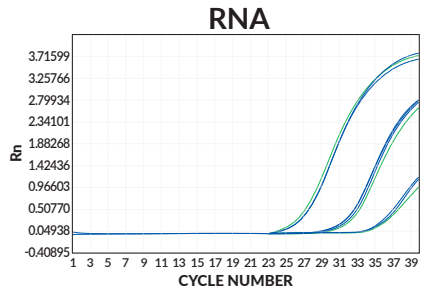


Samples	Ct of Viral DNA	Ct of Viral RNA
Competitor A (CE Certified) - 10^5	*26.10*	*23.67*
	26.60	*23.56*
Competitor A (CE Certified) - 10^4	*29.61*	*28.55*
	30.03	*28.61*
Competitor A (CE Certified) - 10^3	*32.94*	*31.04*
	32.75	*31.19*
MagBeads FastDNA/RNA Kit for Virus-10^5	*26.45*	*24.11*
	26.59	*24.19*
MagBeads FastDNA/RNA Kit for Virus-10^4	*29.81*	*28.40*
	30.05	*28.62*
MagBeads FastDNA/RNA Kit for Virus-10^3	*33.22*	*31.67*
	33.73	*31.50*

MagBeads Competitor A

Automated Extraction





Samples	Ct of Viral DNA	Ct of Viral RNA
Competitor A (CE Certified) - 10^5	*26.19*	*24.84*
Competitor A (CE Certified) - 10^4	*29.77*	*30.91*
Competitor A (CE Certified) - 10^3	*32.13*	*35.01*
MagBeads FastDNA/RNA Kit for Virus-10^5	*26.03*	*25.13*
	26.42	*25.23*
MagBeads FastDNA/RNA Kit for Virus-10^4	*29.47*	*30.70*
	29.78	*30.33*
MagBeads FastDNA/RNA Kit for Virus-10^3	*31.62*	*34.70*
	31.90	*34.46*

MagBeads Competitor A

*The extraction efficiency of **MagBeads FastDNA/RNA Kit for Virus** is comparable to that of competitor A, which is CE certified. The extraction results were measured using both an automated nucleic acid purification system and manual sample preparation. When compared with competitor A, **MagBeads FastDNA/RNA Kit for Virus** demonstrated compatibility with both methods and the ability to successfully extract viral DNA/RNA from viral samples with concentrations as low as 10^3 copies/mL.*

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastDNA/RNA Kit for Virus	192 Preps	116571192
MagBeads FastDNA/RNA Kit for Virus (Ready-to-Use for MPure-32)	96 Preps	117033300
MagBeads FastDNA/RNA Kit for Virus (Ready-to-Use for MPure-96)	96 Preps	117034300

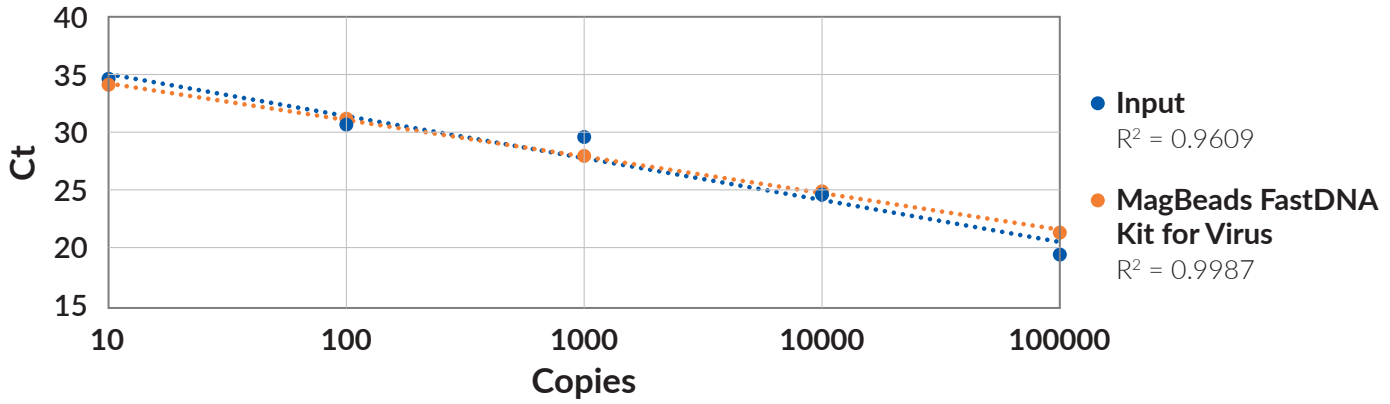
MAGBEADS FASTRNA KIT FOR VIRUS

The study of viruses is critical for understanding their impact on human health and disease. In order to conduct research on these infectious agents, scientists rely on high-quality isolation and purification of viral RNA. One of the key challenges in studying viruses is the isolation and purification of high-quality viral RNA, which is essential for downstream molecular analyses. This process is often time-consuming, tedious, and requires a high level of expertise. To overcome these challenges, the **MagBeads FastRNA Kit for Virus** has been designed to provide researchers with a fast, efficient, and reliable method for extracting viral RNA from various sample types.

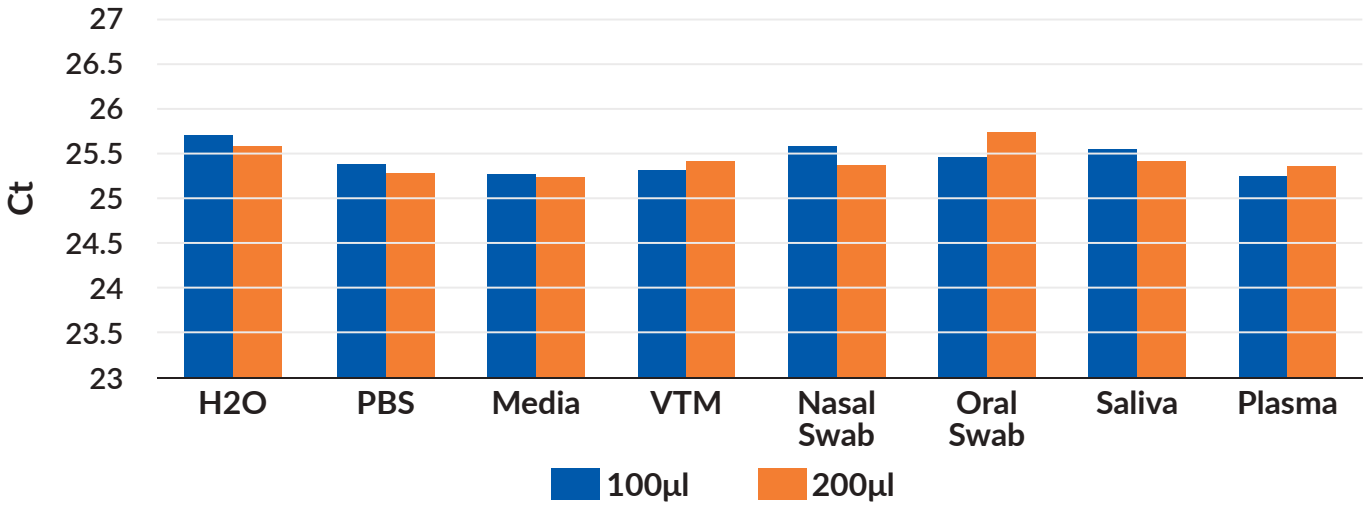
The **MagBeads FastRNA Kit for Virus** is specifically optimized for viral RNA extraction, providing high yield and purity. The extracted RNA can be directly used for downstream applications such as RT-PCR, qPCR, and sequencing; hence, enabling researchers to better understand viral infections and develop effective treatments. With its simple protocol and fast processing time, the **MagBeads FastRNA Kit for Virus** is an essential tool for isolation of viral RNA from a wide variety of viruses. The intended use of this kit is for general utilization; its performance may exhibit variability depending on the type of virus sample.

PERFORMANCE

Real time RT-PCR of 10^1 to 10^5 copies of Quantitative Genomic RNA from Influenza B virus (ATCC VR-1883DQ). High RNA recovery is achieved, with R^2= 0.9987 for RNA extracted using MagBeads FastRNA Kit for Virus.



Real time RT-PCR of RNA extracted from various virus-spiked samples. The same amount of Influenza B virus is spiked into 100 µL or 200 µL of various samples, followed by RNA extraction using MagBeads FastRNA Kit for Virus. Similar Ct is obtained for the different samples. This kit is suitable for viral RNA extraction using samples from cell culture media, swabs, and bodily fluids.



ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastRNA Kit for Virus	50 Preps	116578050
MagBeads FastRNA Kit for Virus (Ready-to-Use for MPure-32)	96 Preps	117035100
MagBeads FastRNA Kit for Virus (Ready-to-Use for MPure-96)	96 Preps	117036100

MAGBEADS FASTRNA KIT FOR FFPE

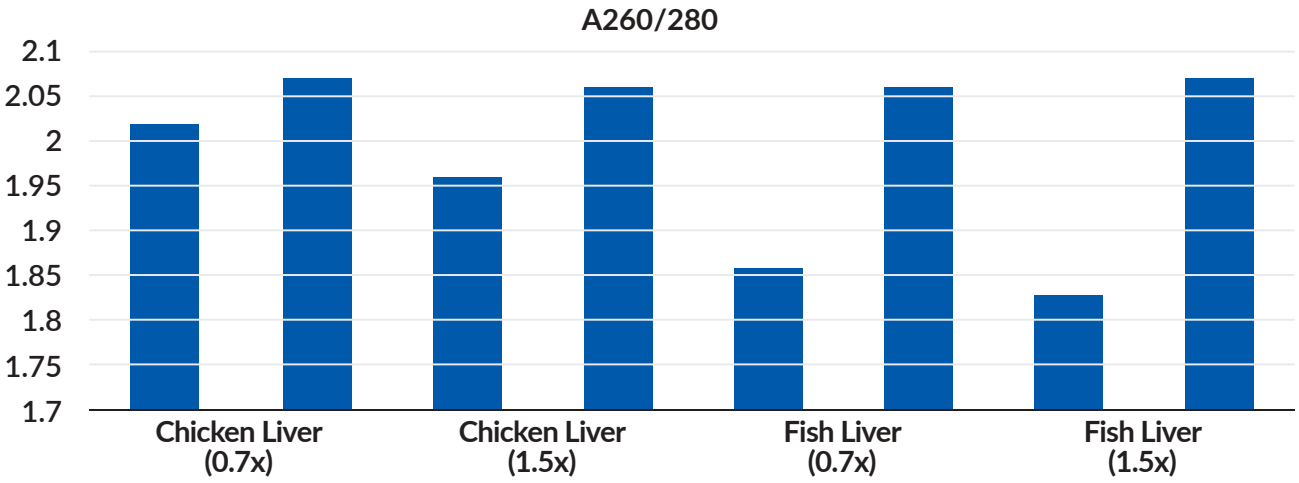
Formalin-fixed paraffin-embedded (FFPE) tissue section is one of the most challenging sample types for genetic or transcriptome analysis. However, it has become an important tool for researchers to use as a long-term preservation for tissue samples in histopathology. The quality and quantity of extracted nucleic acid can be significantly influenced by the process of fixation, embedding, and storage. **MagBeads FastRNA Kit for FFPE** provides a solution for this. The kit uses silica gel column purification technology and a unique solution system to efficiently extract purified RNA from complex FFPE tissue samples.

FEATURES

- Numerous challenging tissue samples tested
- DNA-free RNA is obtained through unique DNase digestion process
- Safety guaranteed without the use of hazardous chemical
- Less than 2 hours of processing time to obtain highly purified RNA for RT-PCR

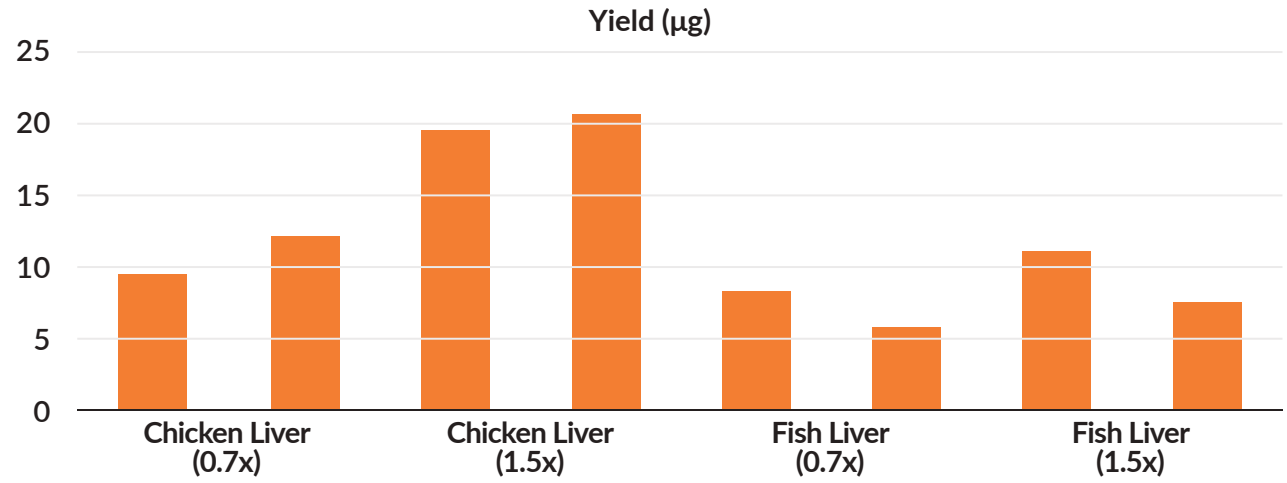
PERFORMANCE

RNA Purity was tested using Fish and Chicken Liver samples. RNA was extracted with MagBeads FastRNA Kit for FFPE at different ethanol concentration.



5 mg paraffin-embedded chicken and fish liver samples, preserved for a year, underwent RNA extraction using the ***MagBeads FastRNA Kit for FFPE.*** *Different isopropanol concentrations (0.7x and 1.5x) were used for extraction of total and micro RNA.*

RNA Yield was tested using Fish and Chicken Liver samples. RNA was extracted with MagBeads FastRNA Kit for FFPE at different ethanol concentration.



Around 5 µg to 20 µg of RNA were successfully extracted from all samples. The separation of large molecule RNA and small molecule RNA can be easily achieved by changing the concentration of ethanol.

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastRNA Kit for FFPE	192 Preps	116573192
MagBeads FastRNA Kit for FFPE (Ready-to-Use for MPure-32)	96 Preps	117033500
MagBeads FastRNA Kit for FFPE (Ready-to-Use for MPure-96)	96 Preps	117034500

MAGBEADS FASTRNA KIT

MagBeads FastRNA Kit – your ultimate solution for simple and rapid extraction of total RNA from tissue and cell culture samples. This kit is specifically designed to offer researchers a quick and easy method for RNA purification, without the need for phenol-chloroform extraction or alcohol precipitation. Based on superparamagnetic particle purification technology, the **MagBeads FastRNA Kit** allows for the efficient isolation of pure and intact RNA in just minutes, using MPure-96™ aNAP System.

The purified RNA obtained from this kit is suitable for a wide range of downstream applications such as RT-PCR, viral RNA testing, and more. Experience the convenience and efficiency of the **MagBeads FastRNA Kit** in your RNA purification workflow today.

FEATURES

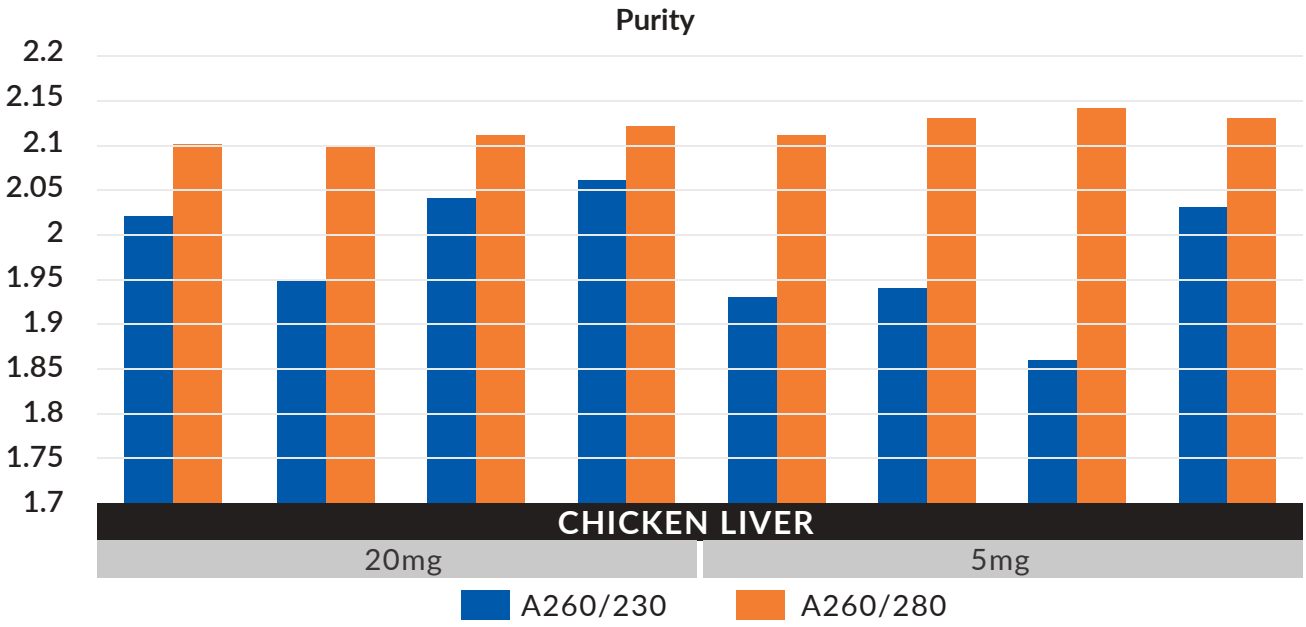
- Extraction process is less than 60 minutes
- Compatible with multiple sample sources including animal/plant cells and tissues
- Wide applicability across various automated systems

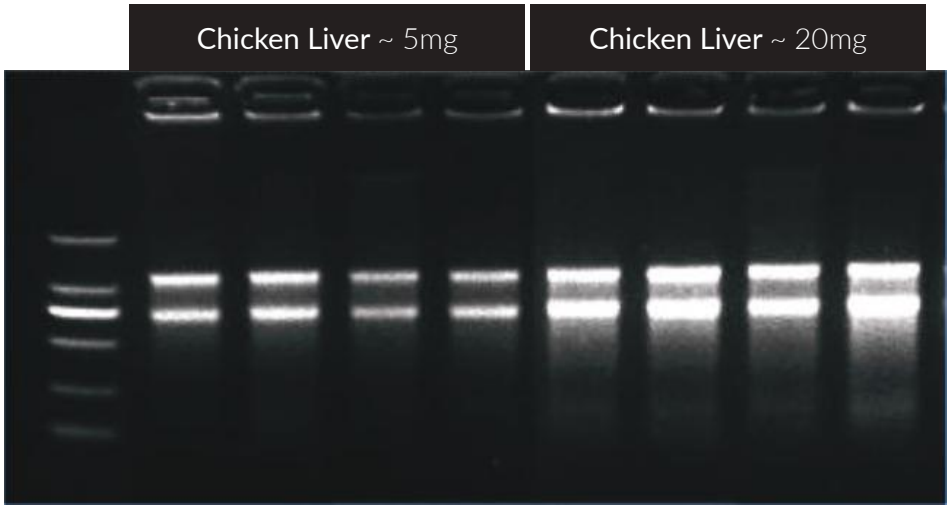
SAMPLE TYPES

- **Cell:** $1x10^7$
- **Yeast cell:** $\leq 5 \times 10^6$
- **Animal Tissue:** ≤20 mg
- **Plant Tissue:** ≤100 mg

PERFORMANCE

Purity of extracted RNA from chicken liver sample using MagBeads FastRNA Kit





Gel electrophoresis of total RNA extracted from 5 mg and 20 mg of chicken liver samples. The intact and bright bands indicated the high quality of extracted RNA.

ORDER INFORMATION

Description	Size	Catalogue Number
MagBeads FastRNA Kit	96 Preps	116572096
MagBeads FastRNA Kit (Ready-to-Use for MPure-32)	96 Preps	117033400
MagBeads FastRNA Kit (Ready-to-Use for MPure-96)	96 Preps	117034400

EXPLORE THE AUTOMATION OPTIONS TO FURTHER ENLARGE YOUR THROUGHPUT

Unlock Peak Efficiency and Achieve Superior Results with MPure™ aNAP Systems.

Sample Processing Workflow

Sample Collection → Homogenization → Sample Extraction → Downstream

Various kits to suit your study field

Viral pathogen and disease study

- MagBeads FastRNA Kit
- MagBeads Fast DNA/RNA for Virus
- MagBeads Fast RNA Kit for Virus

Dietary/Ecological/Environmental microbiome research

- MagBeads FastDNA Kit for Soil
- MagBeads FastDNA Kit for Feces
- MagBeads FastDNA Kit

Human and infectious disease diagnosis research

- MagBeads FastDNA Kit for FFPE
- MagBeads FastRNA Kit for FFPE
- MagBeads FastDNA Kit for Blood
- MagBeads Fast Circulating DNA Kit

Why MPure™ aNAP System

✓ **Top-notch Performance**

> Designed for but not limited to MagBeads Kits for simultaneous sample processing and purification of nucleic acids

✓ **Time saving**

> Average processing time between 30-60 minutes
> High throughput of up to 32 or 96 samples

✓ **Safe and user-friendly**

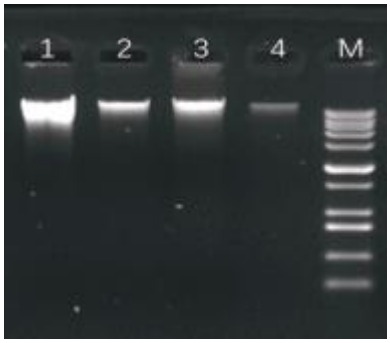
> Intuitive design and UI for faster navigation and experiment setups
> UV and temperature control allow trustworthy result
> Effective cross-contamination control from aerosol

PERFORMANCE

The performance of the **MPure™ aNAP System** instruments have been extensively evaluated with MagBeads Purification Kits. The following data show the high yield and purity of genomic DNA (gDNA) extracted from various soil samples and feces samples.

gDNA extracted from various soil samples using MagBeads FastDNA Kit for Soil (left) and Feces (right).

M: 1kb plus DNA ladder
Lane1: Organic Soil 3µL
Lane2: Flowerbed Soil 8µL
Lane3: Saline Soil 8µL
Lane4: Desert Soil 8µL



M: 1kb plus DNA ladder
Lane1: 30mg swine feces
Lane2: 15mg mouse feces
Lane3: 30mg human feces
Lane4: 150mg chicken feces
Lane5: 150mg bovine feces
Lane6: 150mg elephant feces

SPECIFICATION

Model	MPure-32™	MPure-96™
Catalogue Number	EMC043 (CE version) EMC043D (RUO version)	EMC044 (CE version) EMC044D (RUO version)
Run Time	45 - 60 min	25 - 60 min
Max Throughput	32 samples	96 samples
Weight (NW)	21 kg	95 kg
Dimensions (WxDxH)	38 x 35 x 37 cm	87 x 57.5 x 70 cm
Power Supply	3.2A 100-240V	AC 220-240V
Processing Volume	50 µL - 1000 µL	50 µL - 1600 µL
Magnetic Rod	>4,300 gauss	>3,900 gauss
Spin Speed	-	3,000 rpm
Temperature Control	1 set	4 sets
Heating Block	2 pcs	4 pcs
Heating	RT - 70°C	RT - 130°C
UV & HEPA	UV only	UV & HEPA available
Display	5.5' Touchscreen	7' Touchscreen

Application Video

Scan the QR Code to watch how you can automate your workflow with our solutions

MPure-32

MPure-96

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