

MagaBio Plus FFPE Tissues DNA/RNA Purification Kit

Product Introduction

MagaBio Plus Paraffin-Embedded Tissue DNA/RNA Purification Kit is used for nucleic acid extraction, enrichment, and purification in clinical in vitro testing. This kit utilizes a safe, non-toxic, and highly efficient dewaxing solution to dewax paraffin-embedded samples. The lysis solution can rapidly lyse and digest samples, releasing nucleic acids. High-binding force, superparamagnetic beads specifically capture the released nucleic acids, and impurities bound to the nucleic acids are removed through a washing step. Subsequently, nucleic acids are separated from the magnetic beads using an elution solution, yielding high-purity RNA and DNA.

Specification

Parameters	Description
Sample	Paraffin Sections, Paraffin Blocks, and Formalin-Fixed Samples.
Method	Manual/Automated Instruments
Purity	OD 260/280: 1.7-2.1
Compatible Platform	Bioer Nucleic Acid Purification Systems
Storage Condition	The DNA and RNA enzymes should be stored at -15°C or below, while the other components of the kit should be stored at 2-30°C. The kit has a expiration date of 12 months

Characteristic

- **Easy to Use:** Suitable for automated extraction with flexible product specifications.
- **High Quality:** Providing both high-purity DNA and RNA separately.
- **High Safety:** The product ensures high safety with a non-toxic and odorless dewaxing solution. It does not involve organic reagents like xylene, ensuring a safe and non-toxic process.

Application Cases

Case 1

Using the same paraffin-embedded samples (rat muscle and organ tissues), three different brands of reagents, including MagaBio Plus Paraffin-Embedded Tissue DNA/RNA Purification Kit with product code BSC118, competitor A, and competitor Q, were used for RNA extraction. The RNA concentration was measured using Nanodrop, and agarose gel electrophoresis was performed to analyze the results. The results are presented in Table 1 and Figure 1:

Sample	Bioer			Competitor A			Competitor Q		
	50 μ L Elution Buffer			100 μ L Elution Buffer			50 μ L Elution Buffer		
	ng/ μ l	260/280	260/230	ng/ μ l	260/280	260/230	ng/ μ l	260/280	260/230
Rat Muscle Tissue	35.90	2.07	2.10	20.0	2.11	1.44	35.10	2.09	2.01
Rat Liver Tissue	365.5	1.93	1.99	75.7	1.96	1.41	284.9	2.00	1.93
Rat Kidney Tissue	108.7	2.01	2.03	43.1	2.06	1.68	123.0	1.98	2.13
Rat Spleen Tissue	199.6	1.96	2.17	69.3	2.05	1.76	200.2	2.02	2.18

Table 1: Comparison of Nanodrop Measurements

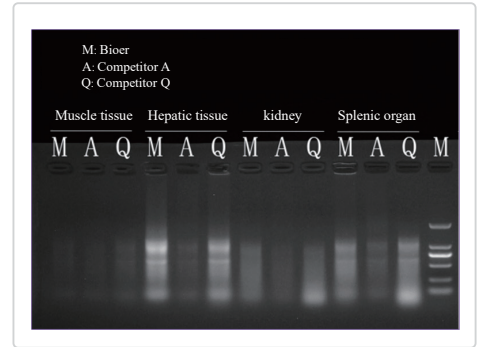


Figure 1: Comparative Gel Electrophoresis

Conclusion: Except for comparable yields with the muscle tissue in the competitor, the brightness of the bands in the liver, kidney, and spleen tissue products using MagaBio Plus FFPE Tissue DNA/RNA Purification Kit was significantly higher than competitor A and almost identical to the competitor Q.

Case 2

The experiment utilized the same samples (rat muscle and organ tissues), and two different brands of reagents, including the Bioer and competitor A competitor. DNA was extracted and the concentration was measured using Nanodrop, followed by gel electrophoresis. The results are presented in Table 2 and Figure 2:

Sample	Bioer			Competitor A		
	100 μ L Elution Buffer			100 μ L Elution Buffer		
	ng/ μ l	260/280	260/230	ng/ μ l	260/280	260/230
Rat Muscle Tissue	15.10	1.97	2.06	14.40	2.05	2.09
Rat Liver Tissue	89.40	1.86	2.12	84.20	1.89	1.52
Rat Kidney Tissue	64.70	1.93	1.94	56.40	1.95	2.07
Rat Spleen Tissue	342.0	1.89	2.13	332.3	1.90	2.26

Table 2: Comparison of Nanodrop Measurement Results

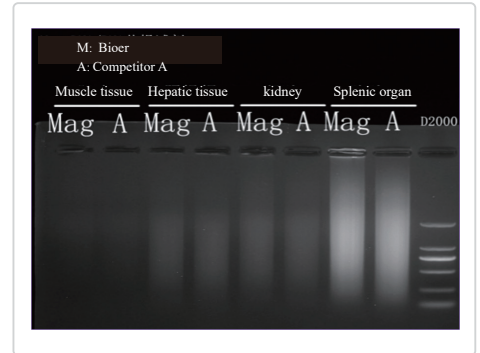


Figure 2: Comparative Gel Electrophoresis

Conclusion: The results indicate that the extraction efficiency of the Kit is identical to that of the competitor.

Ordering Information

Product Name	Cat. No.	Package	Note
MagaBio Plus FFPE Tissues DNA/RNA Purification Kit	BSC118S1E	32T	Plate, NPA-32 series
	BSC118S1B	50T	Bottle
	BSC118M1B	100T	Bottle



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