

MagaBio FFPE Tissue Genomic DNA/RNA Purification Kit

Product Introduction

MagaBio FFPE Tissue Genomic DNA/RNA Purification Kit is designed for the efficient extraction and purification of high-quality DNA and RNA from formalin-fixed, paraffin-embedded (FFPE) tissue samples. Using a magnetic bead-based purification technology, the kit enables simultaneous recovery of both DNA and RNA from a single sample, maximizing valuable sample utilization. A safe and non-toxic dewaxing solution facilitates efficient paraffin removal, while optimized lysis and magnetic bead capture ensure effective nucleic acid release and purification. The purified DNA and RNA are suitable for a wide range of downstream molecular applications, including PCR, qPCR, RT-PCR, sequencing, and other molecular analyses.

Specification

Specification	Details
Sample Type	Formalin-fixed and paraffin-embedded (FFPE) tissues
Starting Material Amount	Paraffin section: Fewer than 8 slices of FFPE tissue with a thickness of about 10 μ m and an area equal to about 0.5 cm $\times$ 0.5 cm Paraffin blocks $\leq$ 30 mg
Run Time	27 min
DNA Purity	A260/A280 ratio of 1.7–2.1
Compatible Platform	Bioer NPA-32E/32P/96E/96T/96, FQD-A1600, FQD-A9600, NPAs 9600, NPAm 9600, Tianlong NP968 and GeneRotex 96, Thermo Fisher KingFisher Flex
Transportation Condition	DNase Solution and RNase A Solution can be transported in a foam box sealed with ice bags or dry ice at 8°C or below for no more than 7 days. The remaining components of the kit can be shipped at room temperature
Shelf Life	18 months

Characteristic

- **Easy to Use:** Suitable for automated extraction with flexible product specifications.
- **High Quality:** Providing both high-purity DNA and RNA separately.
- **Safe & Non-Toxic:** Uses a non-toxic and odorless dewaxing solution for a safer workflow.

Application Cases

Case 1

Using the same paraffin-embedded samples (rat muscle and organ tissues), three different brands of reagents, including MagaBio FFPE Tissue Genomic 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		
Paraffin Sections	50 µL Elution Buffer			100 µL Elution Buffer			50 µL Elution Buffer		
	ng/µL	260/280	260/230	ng/µL	260/280	260/230	ng/µL	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

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 FFPE Tissue Genomic DNA/RNA Purification Kit was significantly higher than competitor A and almost identical to the competitor Q.

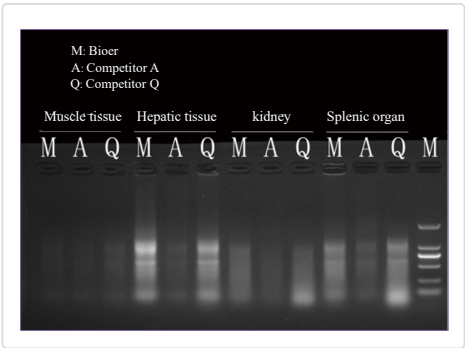


Figure 1: Comparative Gel Electrophoresis

Case 2

The experiment utilized the same samples (rat muscle and organ tissues), and two different brands of reagents, including the MagaBio FFPE Tissue Genomic DNA/RNA Purification Kit (BSC118) and competitor A. 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		
Paraffin Sections	100 µL Elution Buffer			100 µL Elution Buffer		
	ng/µL	260/280	260/230	ng/µL	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

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



Figure 2: Comparative Gel Electrophoresis

Ordering Information

Product Name	Cat. No.	Package	Storage Condition
MagaBio FFPE Tissue Genomic DNA/RNA Purification Kit	BSC118S1B	50T	DNase Solution and RNase A Solution are stored at -25°C to -15°C, and other reagent components are stored at 2°C-30°C
	BSC118M1B	100T	
	BSC118S1E	32T	
	BSC118S1S	32T	
	BSC118M1S	48T	
	BSC118M1E	48T	
	BSC118T1E	16T	
	BSC118T1S	16T	
	BSC118L1E	96T	
	BSC118N1E	24T	
	BSC118T1C-C	16T	
	BSC118S1C-C	32T	
	BSC118M1E-T	48T	
	BSC118L1E-T	96T	
	BSC118S1P-A	32T	



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