

MagaBio FFPE Tissue RNA Purification Kit

Product Introduction

MagaBio FFPE Tissue RNA Purification Kit is designed for efficient extraction and purification of high-quality RNA from formalin-fixed, paraffin-embedded (FFPE) tissue sections. Powered by magnetic bead-based purification technology, the kit combines efficient dewaxing, optimized tissue lysis, and specific RNA capture to deliver reliable RNA recovery and high purity. The purified RNA is suitable for clinical in vitro testing and amplification-based in vitro diagnostic assays, including RT-PCR and qPCR, enabling reliable downstream molecular analysis.

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 μm and an area equal to about 0.5 cm $\times$ 0.5 cm Paraffin blocks $\leq$ 30 mg
Run Time	27 min
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 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

- **Simple & Flexible Operation:** Designed for automated nucleic acid extraction with pre-filled consumables, reducing hands-on setup time and supporting flexible package configurations to meet different testing needs.
- **High-Quality RNA:** Advanced purification technology delivers high-purity RNA with reliable quality for downstream molecular applications.
- **Safe & Non-Toxic Dewaxing:** Uses a non-toxic, odorless dewaxing solution, eliminating the need for xylene and other hazardous organic solvents for a safer laboratory workflow.
- **Automation-Ready Workflow:** Compatible with automated extraction systems, enabling streamlined, standardized, and efficient processing with reduced manual intervention.

Application Cases

Case 1

Ten clinical tissue samples, including sigmoid colon cancer, lung cancer, early-stage renal cancer, lung cell carcinoma, breast ductal carcinoma, invasive lung adenocarcinoma, and other tissue types, were selected for evaluation. RNA was extracted from the samples using the MagaBio FFPE Tissue RNA Purification Kit and a commercially available FFPE RNA purification kit from Company B, respectively. The concentration and purity of the extracted RNA were evaluated using a NanoDrop™ spectrophotometer. The results are shown in Table 1.

Sample No.	BIOER FFPE RNA BSC36			Company B FFPE RNA Kit		
	Concentration(ng/uL)	260/280	260/230	Concentration(ng/uL)	260/280	260/230
1	487.877	1.729	1.991	149.025	1.338	0.247
2	1505.008	1.755	1.710	744.086	1.717	2.210
3	350.133	1.716	1.962	108.628	1.201	0.202
4	1315.351	1.782	1.851	896.948	1.717	2.180
5	913.178	1.785	1.759	717.138	1.747	2.204
6	726.557	1.672	1.929	134.994	1.706	1.707
7	72.935	1.649	1.834	70.515	1.618	1.278
8	89.563	1.720	1.913	67.110	1.686	1.437
9	100.980	1.723	1.829	39.342	1.692	1.356
10	349.254	1.776	1.987	107.236	1.063	0.134

Table 1. Comparison of NanoDrop Measurement Results

Case 2

Clinical lung cancer FFPE tissue samples were extracted using the MagaBio FFPE Tissue RNA Purification Kit (BSC36). The concentration and purity of the purified RNA were measured using a NanoDrop™ spectrophotometer. The results are shown in Table 2.

Sample No.	Concentration(ng/μL)	260/280	260/230
1	124.0	1.94	1.81
2	97.4	2.04	2.02
3	120.3	2.02	2
4	321.5	1.98	2.26

Table 2. NanoDrop Measurement Results

Conclusion: The MagaBio FFPE Tissue RNA Purification Kit delivers high RNA yield, consistent purity, and reliable performance for RNA extraction from clinical FFPE tissue samples.

Ordering Information

Product Name	Cat. No.	Package	Storage Condition
MagaBio FFPE Tissue RNA Purification Kit	BSC36S1	50T	DNase is stored at -25°C to -15°C, and other reagent components are stored at 2-30°C
	BSC36M1	100T	
	BSC36S1E	32T	
	BSC36S1S	32T	
	BSC36M1S	48T	
	BSC36M1E	48T	
	BSC36T1E	16T	
	BSC36T1S	16T	
	BSC36L1E	96T	
	BSC36N1E	24T	
	BSC36T1C-C	16T	
	BSC36S1C-C	32T	
	BSC36M1E-T	48T	
	BSC36L1E-T	96T	
	BSC36S1P-A	32T	



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