

MagaBio FFPE Tissue Genomic DNA Purification Kit

Product Introduction

The MagaBio FFPE Tissue Genomic DNA Purification Kit is designed for the extraction and purification of genomic DNA from formalin-fixed, paraffin-embedded (FFPE) tissue samples. The kit combines a non-toxic deparaffinization solution with magnetic bead-based purification technology to deliver high-quality DNA suitable for downstream molecular applications.

Prepacked reagents and compatibility with automated nucleic acid purification systems help simplify laboratory workflows and enable efficient processing of FFPE samples.

Product Features

- **High Safety:** Uses a non-toxic deparaffinization solution without xylene or other hazardous organic solvents for safer sample preparation.
- **Fast and Efficient:** Enables simultaneous purification of genomic DNA from up to 96 samples within 40 minutes.
- **Efficient DNA Recovery:** Optimized lysis and magnetic bead-based purification enable efficient recovery of genomic DNA from challenging FFPE tissue samples.
- **Automation-Ready:** Compatible with Bioer automated nucleic acid purification systems for streamlined workflows and high-throughput sample processing.

Specification

Specification	Details
Purification Method	Magnetic Bead Technology
Sample Type	FFPE tissue sections
Starting Material Amount	≤8 FFPE tissue sections (10 μm thickness) ≤30 mg of paraffin-embedded tissue blocks
Time	40 min
DNA Purity	A260/A280 ratio of 1.7–2.1
DNA Yield	≥3 μg per 20 mg of tissue
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	Room temperature
Shelf Life	18 months

Application Cases

Genomic DNA was purified from FFPE tissue sections obtained from four tumor samples using the MagaBio FFPE Tissue Genomic DNA Purification Kit. DNA concentration and purity were evaluated by spectrophotometric analysis. The results demonstrated consistent DNA recovery and purity across the tested samples.

Sample ID	DNA Concentration (ng/μL)	OD260/280	OD 260/230
1	30.5	2.00	1.82
2	42.8	2.02	1.91
3	68.1	1.89	1.52
4	87.8	1.94	1.81

Table 1. DNA yield and purity of genomic DNA purified from FFPE tissue samples

Purified DNA was evaluated using a real-time PCR-based EGFR mutation detection assay. All samples generated valid amplification results, with detected EGFR mutation status consistent with the expected results.

Samples	1	2	3	4	Positive Control	Negative Control
Result	L858R mutation	L858R mutation	Wild Type	G719X mutation	Valid	Valid

Table 2. EGFR mutation detection results of purified DNA

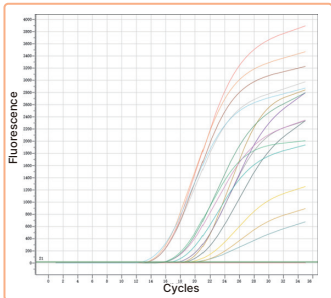


Figure 1. FAM-channel amplification curves for EGFR mutation detection

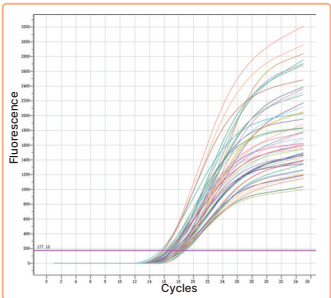


Figure 2. HEX-channel amplification curves for the internal control

Conclusion: The results demonstrate consistent DNA recovery from FFPE tissue samples and reliable performance in downstream real-time PCR applications.

Ordering Information

Product Name	Cat. No.	Package	Storage Condition
MagaBio FFPE Tissue Genomic DNA Purification Kit	BSC31S1	50T	2°C ~25°C
	BSC31M1	100T	
	BSC31S1E	32T	
	BSC31S1S	32T	
	BSC31M1S	48T	
	BSC31M1E	48T	
	BSC31T1E	16T	
	BSC31T1S	16T	
	BSC31L1E	96T	
	BSC31N1E	24T	
	BSC31T1C-C	16T	
	BSC31S1C-C	32T	
	BSC31M1E-T	48T	
	BSC31L1E-T	96T	
	BSC31S1P-A	32T	



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