

MagaBio plus Whole Blood Genomic DNA Purification Kit II

Product Introduction

MagaBio plus Whole Blood Genomic DNA Purification Kit II is designed for efficient extraction and purification of high-quality genomic DNA from a wide range of whole blood samples, including tough specimens. Based on magnetic bead technology, the kit uses direct Proteinase K lysis without the need for mechanical disruption, helping simplify the workflow and reduce hands-on time. Purified DNA can be used directly in a variety of downstream applications, including PCR, qPCR, cloning, Southern blotting, and sequencing. The kit provides a simple, reliable, and efficient solution for routine genomic DNA purification.

Product Features

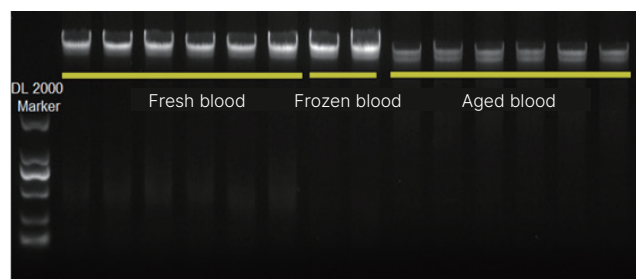
- **Broad Sample Compatibility:** Suitable for a wide range of samples, including fresh or frozen human peripheral whole blood, buffy coat and human bone marrow aspirate specimens.
- **Simple & Efficient:** Centrifugation-free workflow with compatibility for automated purification platforms.
- **Safe & Eco-Friendly:** No organic solvents or other toxic reagents required for safer and more environmentally friendly operation.
- **Optimized for Low-Volume Samples:** Optimized purification workflow for efficient genomic DNA extraction from low-volume samples.

Specification

Product Name	MagaBio plus Whole Blood Genomic DNA Purification Kit II
Sample Type	Fresh or frozen human peripheral whole blood, buffy coat and human bone marrow aspirate specimens
RNase Treatment	No
DNA Performance	≥2μg/200μL
DNA Purity	OD260/OD280:1.7~2.1
Operation Time	<50 min
Compatible Platform	Bioer NPA-32E/32P/96E/96T/96, FQD-A1600, FQD-A9600, NPAs 9600, NPAm 9600, Tianlong NP968 and GeneRotex 96, ThermoFisher KingFisher Flex
Shelf Life	18 Months

Performance Data

Case 1: A total of 240 μL of each human whole blood sample was used for DNA extraction. The concentration, purity, and integrity of the extracted DNA were evaluated by spectrophotometric analysis and agarose gel electrophoresis.



Samples	Concentration (ng/ μL)	A260/A280	Samples	Concentration (ng/ μL)	A260/A280
Fresh blood -1	60.00	1.81	Frozen blood	66.20	1.79
Fresh blood -2	63.00	1.86	Aged blood -1	33.00	1.85
Fresh blood -3	60.20	1.86	Aged blood -2	36.90	1.84
Fresh blood -4	63.70	1.85	Aged blood -3	39.20	1.80
Fresh blood -5	68.40	1.86	Aged blood -4	34.30	1.81
Fresh blood -6	72.90	1.86	Aged blood -5	37.60	1.82
Frozen blood	60.10	1.76	Aged blood -6	35.70	1.80

Conclusion: High-quality genomic DNA was successfully extracted from fresh, frozen, and aged blood samples, demonstrating reliable performance across blood samples under different storage conditions.

Case 2: Genomic DNA was extracted from pediatric bone marrow samples. The concentration and purity of the extracted DNA were measured using the NanoDrop 2000 and Qubit, respectively. The results are shown below.

Sample ID	DNA Conc. (ng/ μL)	A260/A280	A260/A230	Qubit (ng/ μL)
1	1555.6	1.89	2.31	1056
2	1624.2	1.89	2.32	1052
3	1308.1	1.91	2.34	1143

Conclusion: High-concentration and high-purity genomic DNA was successfully extracted from all three bone marrow samples, demonstrating the kit's reliable performance for genomic DNA purification from bone marrow samples.

Ordering Information

Product Name	Cat. No.	Package	Storage Condition
MagaBio plus Whole Blood Genomic DNA Purification Kit II	BSC73S1B	50T	2-25°C
	BSC73M1B	100T	2-25°C
	BSC73S1E	32T	2-25°C
	BSC73S1S	32T	2-25°C
	BSC73M1S	48T	2-25°C
	BSC73M1E	48T	2-25°C
	BSC73T1E	16T	2-25°C
	BSC73T1S	16T	2-25°C
	BSC73T1P	16T	2-25°C
	BSC73S1P	32T	2-25°C
	BSC73L1E	96T	2-25°C
	BSC73N1E	24T	2-25°C
	BSC73T1C-C	16T	2-25°C
	BSC73S1C-C	32T	2-25°C
	BSC73M1E-T	48T	2-25°C
	BSC73L1E-T	96T	2-25°C
	BSC73S1P-A	32T	2-25°C



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