

# MagaBio Plus Whole Blood Total RNA Purification Kit

## Product Introduction

The MagaBio Plus Whole Blood Total RNA Purification Kit is designed for extracting and purifying high-quality RNA from both frozen and fresh whole blood samples. This kit utilizes a specially formulated lysis buffer to release RNA from the blood samples. The RNA is then selectively bound to the magnetic beads with the action of the binding solution. The RNA-bound magnetic beads are captured by magnetic material. Through two washing steps, impurities are removed, and finally, RNA is eluted and collected from the magnetic beads with the elution buffer. The purified RNA product from this kit can be directly used in downstream experiments such as Northern Blot, RT-PCR/Real Time, RT-PCR, in vitro translation, etc.

## Specification

Parameters	Description
Sample	Frozen Blood and Fresh Whole Blood Samples
Method	Manual/Automated Instruments
Purity	OD 260/280: 1.7-2.2
Compatible Platform	Bioer Nucleic Acid Purification Systems
Storage Condition	The lysis buffer is stored at 2°C to 8°C, while other kit components are stored at 2°C to 30°C, with a expiration date of 12 months

## Characteristic

- **Strong Applicability:** Suitable for various blood types, including fresh whole blood and frozen blood.
- **High Safety:** No need for toxic reagents like phenol or chloroform.
- **Easy to Use:** Suitable for automated extraction with flexible product specifications.

## Application Cases

### Case 1

The experiment used MagaBio Plus Whole Blood Total RNA Purification Kit with product number BSC113 and competitor (specifically for frozen blood extraction) for comparison in extracting frozen whole blood. Concentration was measured using Nanodrop, and the results were determined through agarose gel electrophoresis, as shown in Table 1 and Figure 1 below:

	Sample ID	BSC113			Competitor		
		Nucleic Acid	260/280	260/230	Nucleic Acid	260/280	260/230
1	Sample 1	116.8	1.96	1.71	72.30	1.93	1.21
2	Sample 2	134.0	1.94	1.66	81.80	2.07	1.44
3	Sample 3	148.4	1.95	1.80	87.60	2.08	1.70
4	Sample 4	90.50	1.90	1.47	77.40	1.96	1.03
5	Sample 5	145.3	1.96	1.75	109.4	2.10	1.87

Table 1: Comparison of Nanodrop Measurements

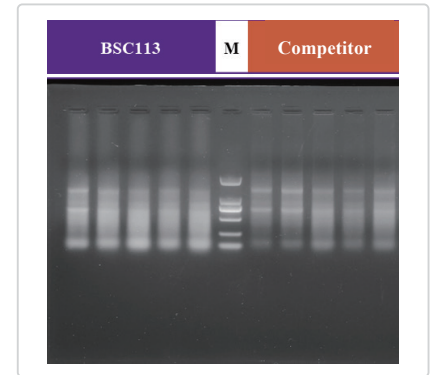


Figure 1: Gel Electrophoresis Comparison

**Conclusion:** Conclusion: The results indicate that MagaBio Plus Whole Blood Total RNA Purification Kit with product number BSC113 yielded a higher product concentration.

### Case 2

The experiment compared MagaBio Plus Whole Blood Total RNA Purification Kit with product number BSC113 to competitor for the simultaneous extraction of fresh-frozen whole blood. After freeze-thawing and extraction, the concentration was measured using Nanodrop, and the results were determined through agarose gel electrophoresis, as shown in Table 2 and Figure 2 below:

Sample ID	BSC114				Competitor				
	Nanodrop (ng/μl)	260/280	260/230	Gel Electrophoresis Bands	Nanodrop (ng/μl)	260/280	260/230	260/230	Gel Electrophoresis Bands
1	91.1	2.03	1.74	1	56.0	2.10	1.67	1.67	4
2	60.9	2.01	1.56	2	40.9	2.04	1.32	1.32	5
3	94.8	2.00	1.74	3	78.4	1.92	1.04	1.04	6

Table 2: Comparison of Nanodrop Measurements

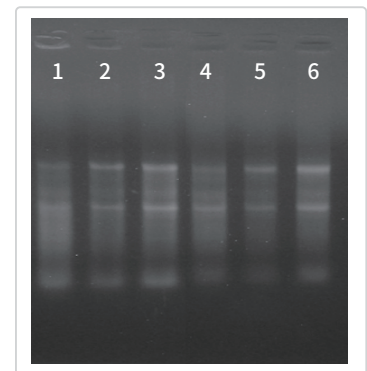


Figure 2: Gel Electrophoresis Comparison

**Conclusion:** The results indicate that MagaBio Plus Whole Blood Total RNA Purification Kit with product number BSC113 yielded a higher product concentration.

## Ordering Information

Product Name	Cat. No.	Package	Note
MagaBio Plus Whole Blood Total RNA Purification Kit	BSC113T1E	16T	Plate, NPA-32 series
	BSC113S1E	32T	Plate, NPA-32 series
	BSC113S1	50T	Bottle
	BSC113M1	100T	Bottle
	BSC113M1E	48T	Plate, NPA-96 series, NPAS-9600, FQD-A9600
	BSC113L1E	96T	Plate, NPA-96 series, NPAS-9600, FQD-A9600



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