

# MagaBio Feces Genomic DNA Purification Kit

## Product Introduction

Fecal genomic DNA testing is one of the crucial methods for studying gut microbiota and diagnosing gastrointestinal diseases. The quality of fecal genomic DNA products plays a pivotal role in the early detection of colorectal cancer, contributing to reducing its mortality rate and minimizing the discomfort experienced by individuals undergoing testing. However, fecal samples are characterized by their complex composition, making the extraction of fecal genomic DNA a challenging process.

The MagaBio Fecal Genomic DNA Purification Kit is a specialized magnetic bead-based extraction kit designed specifically for stool samples. The kit features a uniquely designed neutralization solution, which can effectively precipitate impurities such as proteins and polysaccharides. It efficiently removes various inhibitory factors present in feces that can impact downstream experiments, enabling rapid and safe nucleic acid isolation and purification.

## Specification

Parameters	Description
Sample	0.05-0.25g Feces
Method	Manual/Automated Instruments
Time	40 min (After Homogenization)
Compatible Platform	Bioer Nucleic Acid Purification System
Storage Condition	2-30 °C for 12 months

## Characteristic

- **Easy to Operate:** Relevant extraction can be completed within 40 minutes after sample homogenization.
- **Strong Binding Capacity:** The patented binding solution effectively precipitates impurities such as proteins and polysaccharides.
- **High Safety:** No need for toxic reagents like phenol or chloroform.

## Application Cases

### Case 1

The experiment involved the extraction testing of mouse fecal samples using MagaBio Fecal Genomic DNA Purification Kit with catalog number BSC107, as well as brand A and brand B. The test results are shown in Figure 1 and Table 1 below:

Sample ID	Kits	Total Concentration (ng/ $\mu$ L)	OD 260/280	OD 260/230
1	Bioer	105.1	1.9	1.85
2	Bioer	104.6	1.9	1.91
3	Brand A	1437.9	2.09	1.02
4	Brand A	1427.2	2.09	1.33
5	Brand B	158.6	1.84	0.7
6	Brand B	153.4	1.84	0.71

**Conclusion:** The results show that for the extraction of mouse fecal samples, BSC107 exhibited good purity and concentration. Although brand A and brand B showed higher nucleic acid concentrations, their purity was lower.

### Case 2

The experiment involved the extraction testing of cat fecal samples using MagaBio Fecal Genomic DNA Purification Kit BSC107, as well as brand A and brand B. The test results are shown in Figure 2 and Table 2 below:

Sample ID	Kits	Total Concentration (ng/ $\mu$ L)	OD 260/280	OD 260/230
1	Bioer	51.9	1.82	1.76
2	Bioer	50.9	1.81	1.78
3	Brand A	33.1	2.06	1.24
4	Brand A	32.5	2.05	1.24
5	Brand B	207.1	1.79	0.28
6	Brand B	925.3	1.81	0.29

**Conclusion:** BSC107 exhibited excellent purity and concentration when extracting cat fecal samples. Additionally, its purity was higher compared to brand A and brand B.

### Case 3

The experiment involved the extraction testing of human infant fecal samples using MagaBio Fecal Genomic DNA Purification Kit BSC107, as well as brand A and brand B. The test results are shown in Figure 3 and Table 3 below:

Sample ID	Kits	Total Concentration (ng/ $\mu$ L)	OD 260/280	OD 260/230
1	Bioer	42.5	1.83	1.81
2	Bioer	42.3	1.83	1.92
3	Brand A	925.3	2.58	1.88
4	Brand A	917.3	2.64	1.90
5	Brand B	24.8	1.83	0.28
6	Brand B	23.8	1.85	0.28

**Conclusion:** When extracting human infant fecal samples, BSC107 demonstrated excellent purity and concentration. Moreover, its purity was higher compared to brand A and brand B.

## Ordering Information

Product Name	Cat. No.	Package	Note
MagaBio Feces Genomic DNA Purification Kit	BSC107S1C-C	32T	Plate, Tianlong NP968-C
	BSC107S1S	32T	Strips, NPA-32 series
	BSC107T1E	16T	Plate, NPA-32 series
	BSC107S1E	32T	Plate, NPA-32 series
	BSC107S1B	50T	Bottle
	BSC107M1B	100T	Bottle
	BSC107M1E	48T	Plate, NPA-96 series, NPAS-9600, FQD-A9600
	BSC107L1E	96T	Plate, NPA-96 series, NPAS-9600, FQD-A9600



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Add: 1192 Bin An Rd., Hi-tech (Binjiang) District, Hangzhou, 310053, P.R.China    Web: www.bioer.com.cn  
Tel: +86-571-87774513    Fax: +86-571-87774553    E-Mail: reagent@bioer.com.cn    E-Date: 2023.10