

MP Biomedicals
MagBeads FastDNA® Kit for Feces

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Promotion for Newly Launched Product



MagBeads FastDNA® Kit for Feces



MP Magnetic Rack 8



MP Magnetic Rack 24



- 1 Super discount and free trial!
- 2 Validity 2020.1.1-2020.12.31
- 3 Fill up the feedback form and receive a complimentary gift!



Ordering Information

Product	Packaging	Cat. No.
MagBeads FastDNA® Kit for Feces	50 preps	116570400
MagBeads FastDNA® Kit for Feces Sample	5 preps	116570401
MP Magnetic Rack 24	1 ea	116570413
MP Magnetic Rack 8	1 ea	116570426
MagBeads FastDNA® Kit for Feces	Custom Made	



**Magnetic Beads for Quick Isolation of Genomic DNA
 from Feces Sample**



Manual & Automatic Extraction

MP Bio Americas

✉ custserv@mpbio.com
 ☎ 1.800.854.0530

MP Bio Europe

✉ custserv.eur@mpbio.com
 ☎ 00800.7777.9999

MP Bio APAC

✉ asia.custserv@mpbio.com
 ☎ 65.6775.0008



Extraction Kit Introduction

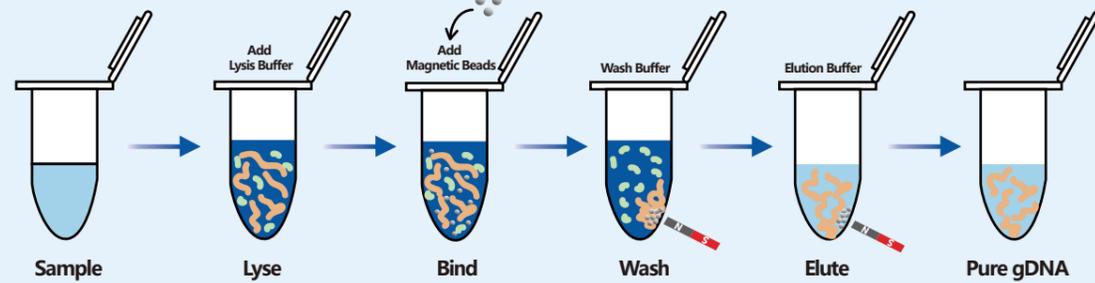
MagBeads FastDNA[®] Kit for Feces enables quick isolation of gDNA from fecal sample. The kit is equipped with specially formulated buffers to effectively remove various contaminants such as proteins, humic substances, polyphenols, polysaccharides etc. It also has proprietary magnetic beads with high binding capacity and selectivity for gDNA. As such, high yields of pure gDNA can be extracted and ready for downstream analyses like PCR, restriction digestion, sequencing and others. Manual extraction is performed with the use of Magnetic Rack, or the kit is also compatible with most of the automated nucleic acid extraction instruments on the market. The high throughput of this kit is a perfect way to increase work efficiency.

Product Highlights

- ✓ **Extracted DNA of High Quality:** Intact, high yield and free from inhibitors;
- ✓ **Simple and Quick Protocol:** Extraction process within 1 hour, even higher throughput with automated instrument;
- ✓ **Wide Application:** Extraction from human and animal feces, as well as intestinal contents;
- ✓ **Environmentally Friendly:** No phenol/chloroform or other toxic chemicals.

Extraction Protocol with MagBeads

Extraction can be done manually using a MP Magnetic Rack-24 (Cat. No. 116570413), which allows a maximum of 24 sample to be processed simultaneously. Otherwise, automated nucleic acid extraction instrument can provide even higher throughput. The extraction procedure is made up of four simple steps: Lyse, Bind, Wash and Elute.



Data: gDNA Yield and Purity

Feces Origin	Extraction Mode	Yield (ng/mg)	260/280	260/230
Swine	Manual	126.68 ± 1.45	1.99 ± 0.01	2.02 ± 0.02
	Automation	106.98 ± 3.23	1.94 ± 0.00	1.93 ± 0.05
Mouse	Manual	110.33 ± 1.80	1.97 ± 0.00	1.25 ± 0.23
	Automation	99.33 ± 3.81	1.96 ± 0.01	2.40 ± 0.13
Human	Manual	107.30 ± 5.59	1.97 ± 0.01	1.24 ± 0.12
	Automation	110.32 ± 1.15	2.00 ± 0.01	1.71 ± 0.03
Chicken	Manual	85.38 ± 15.24	1.90 ± 0.01	1.12 ± 0.14
	Automation	52.17 ± 7.34	1.90 ± 0.02	1.48 ± 0.09
Bovine	Manual	77.60 ± 2.31	1.80 ± 0.01	0.98 ± 0.02
	Automation	53.82 ± 2.17	1.72 ± 0.01	1.07 ± 0.04
Elephant	Manual	31.98 ± 1.64	1.84 ± 0.01	1.01 ± 0.16
	Automation	22.18 ± 0.21	1.81 ± 0.00	1.46 ± 0.02

💡 MagBeads FastDNA[®] Kit for Feces is able to extract high yield of pure gDNA from various feces sample.

Remark: Yield difference between manual and automatic mode is due to variation in sample processing volume.

Performance of MagBeads FastDNA[®] Kit for Feces

1 Electrophoretic Analysis

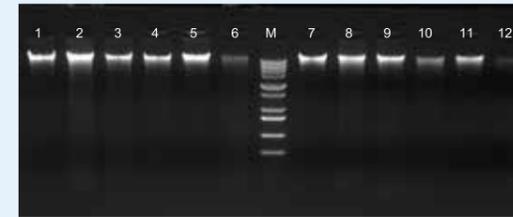


Figure 1: gDNA extracted from different feces sample using MagBeads FastDNA[®] Kit for Feces. Lane 1-6: Manual extraction Lane 7-12: Automation extraction M: 1kb plus DNA ladder Lane 1&7: 30 mg swine feces Lane 2&8: mouse feces Lane 3&9: 30 mg human feces Lane 4&10: 150 mg chicken feces Lane 5&11: 150 mg bovine feces Lane 6&12: 150 mg elephant feces

💡 Extracted gDNA is intact and showing single bright band.

2 16S rDNA PCR

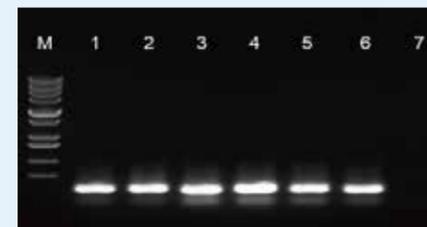


Figure 2: PCR of gDNA extracted from different feces sample using MagBeads FastDNA[®] Kit for Feces. M: 1kb plus DNA ladder Lane 1: swine feces Lane 2: mouse feces Lane 3: human feces Lane 4: chicken feces Lane 5: bovine feces Lane 6: elephant feces Lane 7: negative control

💡 Extracted gDNA is free from inhibitors and ready for PCR amplification.

3 HindIII Restriction Enzyme Digestion

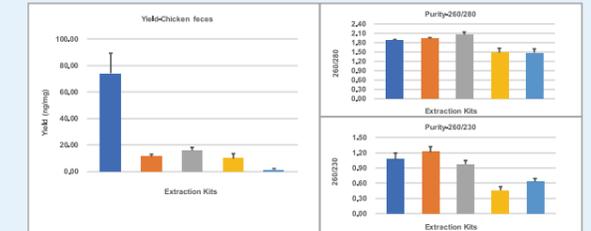


Figure 3: Restriction digestion of gDNA extraction from different feces sample. Lane 1&2: Swine Lane 3&4: Swine Lane 5&6: Human Lane 7&8: Chicken Lane 9&10: Bovine Lane 11&12: Elephant 1/3/5/7/9/11: Before digestion 2/4/6/8/10/12: After digestion M: 1kb plus DNA ladder

💡 Extracted gDNA is free from inhibitors and ready for restriction enzyme digestion.

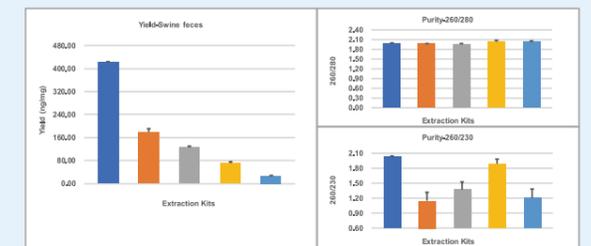
Comparison with Competitor Kit

1 Competitor Kit on Chicken Feces gDNA Extraction



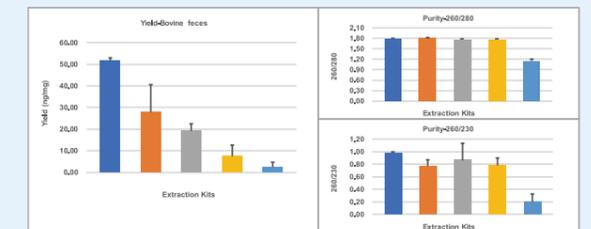
MP MagBeads Feces Kit T Kit Q Kit 1 O Kit

2 Competitor Kit on Swine Feces gDNA Extraction



MP MagBeads Feces Kit T Kit Q Kit 1 O Kit

3 Competitor Kit on Bovine Feces gDNA Extraction



MP MagBeads Feces Kit T Kit Q Kit 1 O Kit

💡 MagBeads FastDNA[®] Kit for Feces has outcompeted competitor kits by demonstrating higher yield and purity.