

**HIGH YIELDS AND QUICK ISOLATION OF  
GENOMIC DNA FROM FECAL SAMPLES**

Designed For Manual and Automated DNA Isolation

# MagBeads FastDNA™ Kit for Feces



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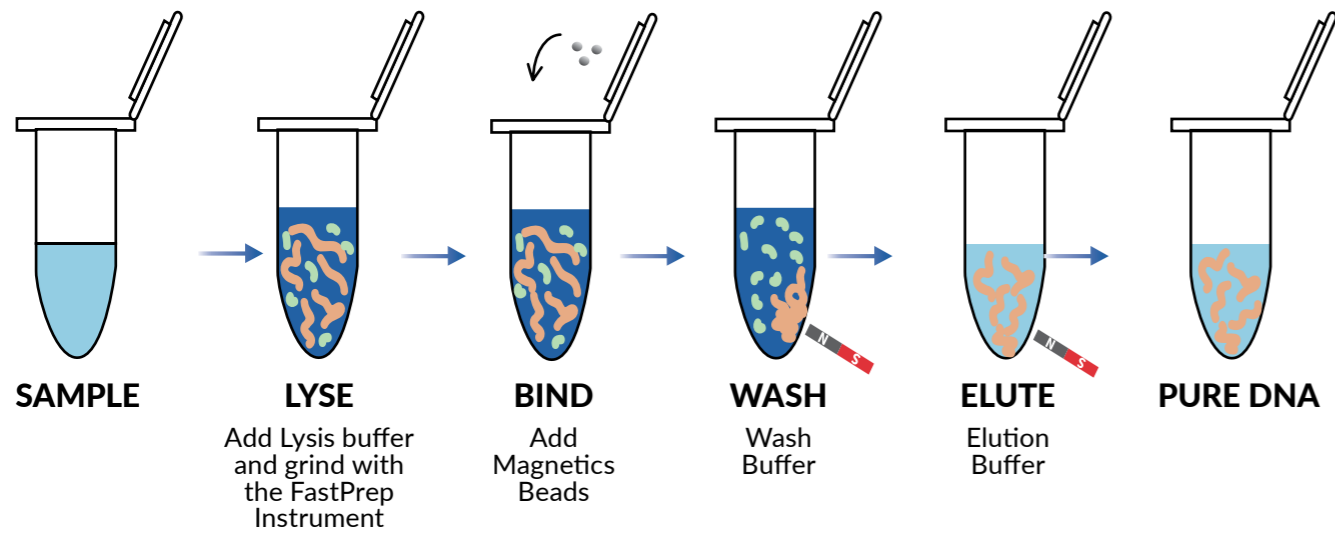
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# MagBeads FastDNA™ Kit for Feces

- ▶ **HIGH QUALITY DNA:** Intact, high yield and free from inhibitors
- ▶ **QUICK AND SIMPLE:** Manual extraction in one hour
- ▶ **WIDE APPLICATION:** Extraction from human and animal feces, intestinal contents
- ▶ **HIGH THROUGHPUT:** compatible with automated platforms
- ▶ **ENVIRONMENTALLY FRIENDLY:** No phenol/chloroform or other toxic chemicals

Extraction can be done manually using a Magnetic Rack. The MagBeads FastDNA™ Kit For Feces can also be adapted to automated nucleic acid extraction instruments for high throughput processing.

The extraction procedure is made up of four simple steps: Lyse, Bind, Wash and Elute.



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

## PERFORMANCE OF THE MAGBEADS FASTDNA™ KIT FOR FECES

### 1 Electrophoretic Analysis

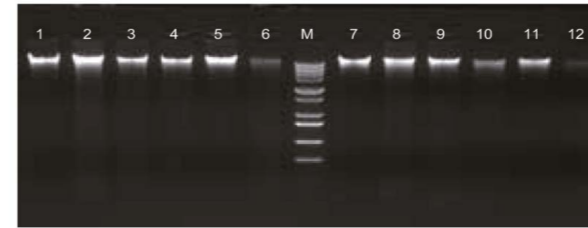


Figure 1: gDNA extracted from different feces sample using MagBeads FastDNA™ Kit for Feces. Lane 1-6: Manual extraction Lane 7-12: Automation extraction M: 1kb plus DNA ladder Lane 1&7: 30 mg swine feces Lane 2&8: mouse feces Lane 3&9: 30 mg human feces Lane 4&10: 150 mg chicken feces Lane 5&11: 150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

☀ Extracted gDNA is intact (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

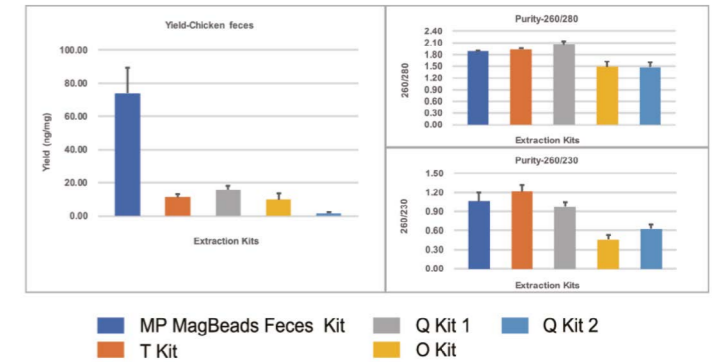


Figure 3: Restriction digestion of gDNA extraction from different feces sample. Lane 1&2: Swine Lane 3&4: Swine Lane 5&6: Human Lane 7&8: Chicken Lane 9&10: Bovine Lane 11&12: Elephant 1/3/5/7/9/11: Before digestion 2/4/6/8/10/12: After digestion M: 1kb plus DNA ladder

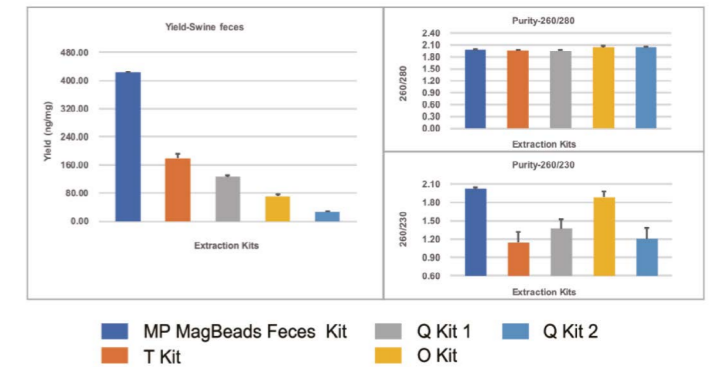
☀ HindIII Restriction Enzyme Digestion

## COMPARISON WITH COMPETITOR KITS

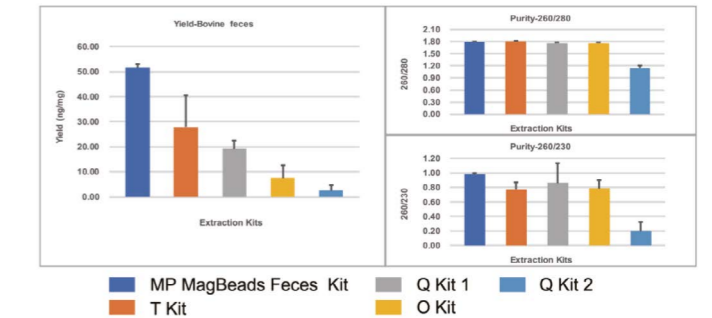
### 1 Competitor Kit on Chicken Feces DNA Extraction



### 2 Competitor Kit on Swine Feces DNA Extraction



### 3 Competitor Kit on Bovine Feces DNA Extraction



☀ MagBeads FastDNA™ Kit for Feces has outcompeted competitor kits by demonstrating higher yield and purity.

# A Complete Product Range: MagBeads FastDNA™ Kit for Feces and Magnetic Racks



Test it with your Samples!  
Contact us to request a 5 Prep Kit

Product	Cat. No.	Packaging
MagBeads FastDNA™ Kit for Feces	116570400	50 Preps
Magbeads FastDNA™ Kit for Feces Sample	116570401	5 Preps
MP Magnetic Rack 24	116570413	1 Rack
MP Magnetic Rack 8	116570426	1 Rack

## The FastPrep System

A Complete Solution for Sample Preparation from Fecal Specimens



**Powerful** Thorough grinding and lysis of the most difficult samples in just a few seconds.

**Flexible** Easily interchangeable sample holders to process any sample size (2mL, 4.5mL, 15mL, 50mL tubes, 250mL flasks and 96 well plates) at cryogenic or room temperature.

**Complete Solution** Large number of ready-to-use Lysing Matrix compositions and FastPrep Kits for DNA, RNA and protein purification of any sample.

### MP BIOMEDICALS

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