

HIGH YIELDS AND QUICK ISOLATION OF GENOMIC DNA FROM ENVIRONMENTAL SAMPLES

Designed For Manual and Automated DNA Isolation

MagBeads FastDNA[™] Kit for Soil



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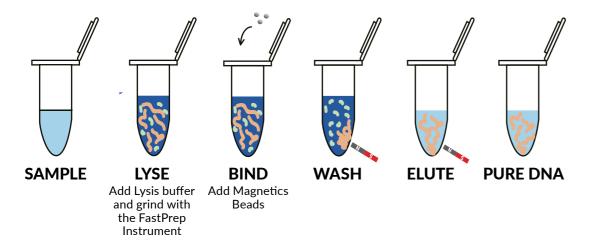
MAGBEADS FASTDNA KIT FOR SOIL A COMPLETE SOLUTION FOR EXTRACTING DNA

SOIL - SEDIMENT - SLUDGE - WATER - COMPOST - RHIZOSPHERE - PERMAFROST - AND MANY OTHER ENVIRONMENTAL SAMPLES

- HIGH YIELD: Magbeads technology with FastPrep® instrument guarantees high DNA yield extraction
- HIGH PURITY: Uniquely formulated inhibitor removal solution to ensure high level of purity, increased A260/230 ratio and extracted pure DNA is suitable for downstream applications.
- HIGH THROUGHPUT: Perfect integration with automated instruments to deliver high throughput DNA extraction.
- WIDE: Effective DNA extraction from many types of of environmental samples
- **SAFE:** No phenol, chloroform or toxic reagent involved safe and environmentally friendly.

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

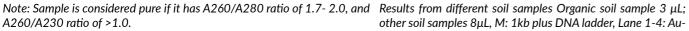
The extraction procedure is made up of four simple steps: Lyse, Bind, Wash and Elute.

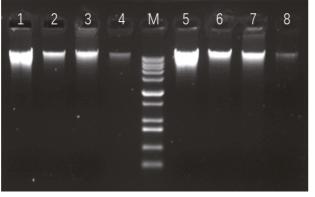


DNA EXTRACTION RESULTS

1. Yield and purity of DNA extraction from different types of soil

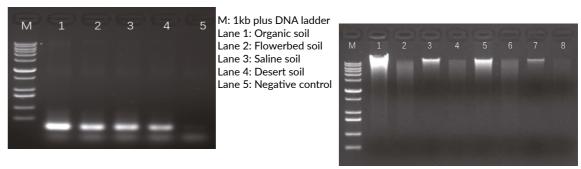
Type of Soil Sample	Extraction Method	DNA Yield (ng/mg sample)	A260/A280	A260/A230	1
Organic Soil 100 mg	Automation	130.25±4.95	1.84±0.00	1.23±0.02	
	Manual	196.08±3.92	1.98±0.02	1.08±0.01	
Flowerbed Soil 100 mg	Automation	19.92±0.95	1.86±0.01	1.53±0.03	
	Manual	24.43±0.74	1.85±0.02	1.09±0.03	
Saline Soil 250 mg	Automation	11.75±0.37	1.87±0.02	1.51±0.05	
	Manual	13.43±0.39	1.90±0.01	1.37±0.03	
Desert Soil 250 mg	Automation	2.47±0.13	1.85±0.00	1.43±0.03	
	Manual	2.97±0.13	1.91±0.03	0.81±0.02	





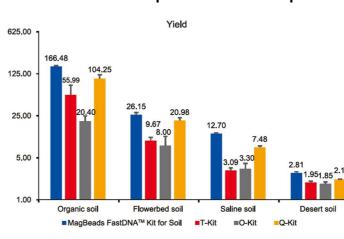
other soil samples 8µL, M: 1kb plus DNA ladder, Lane 1-4: Automation, Lane 5-8: Manual, Lane 1&5: 100 mg Organic Soil, Lane 2&6: 100 mg Flowerbed Soil, Lane 3&7: 250 mg Saline Soil, Lane 4&8: 250 mg Desert Soil

2. PCR amplification and restriction enzyme digestion using gDNA extracted from various types of soil



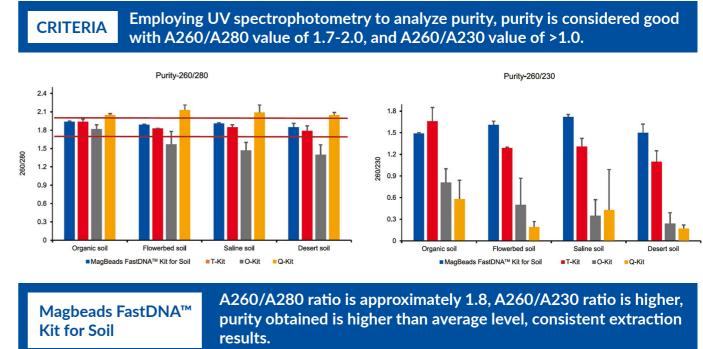
Conclusion: Magbeads FastDNA[™] Kit for Soil successfully extracted DNA from different types of soil, DNA can be used directly for downstream applications such as PCR amplification, restriction enzyme digestion, and sequencing.

PERFORMANCE COMPARISON



ield

2. DNA purity comparison with competitors' kits – Higher purity



M: 1kb plus DNA ladder Lane 1/3/5/7: Before enzyme digestion Lane 2/4/6/8: After enzyme digestion Lane 1&2: Organic soil Lane 3&4: Flowerbed soil Lane 5&6: Saline soil Lane 7&8: Desert soil

1. DNA Yield comparison with competitors' kits - Higher yield

MAGBEADS FASTDNATM KIT FOR SOIL

Magbeads FastDNA[™] Kit for Soil is designed to provide high throughput isolation of genomic DNA from environmental samples. This kit uses magnetic beads with a high binding capacity to effectively extract DNA via manual or automated methods.





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

Product	Cat. No.	Packaging	
MagBeads FastDNA™ Kit for Soil	116561050	50 Preps	
Magbeads FastDNA™ Kit for Soil Sample	116561005	5 Preps	
MP Magnetic Rack 24	116570413	1 ea	
MP Magnetic Rack 8	116570426	1 ea	



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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