

PowerSoil™ - htp 96 Well

Soil DNA Isolation Kit

Finally, PowerSoil™ technology in a 96 Well format to do **MORE!**

Environmental Microbiology Products from MO BIO

NEW

NEW

- Maxi-Prep Microbial DNA Isolation
- 96 Well-htp Soil DNA Isolation
- Large Scale Soil DNA Isolation
- Soil DNA and RNA Isolation
- Archived Soil Samples DNA Clean-up
- Plant DNA and RNA Isolation
- Microbial DNA and RNA Isolation
- Water DNA Isolation
- PCR Clean-Up
- Tissue DNA and RNA Isolation
- DNA Purification from Gels
- Plasmid DNA Isolation
- Forensic DNA Isolation
- Blood DNA Isolation

✓ More Samples

Process up to 192 samples in a 96 well format while preventing the co-purification of humic acids.

✓ More Soil Types

Obtain PCR-quality DNA from the most complex soil matrices such as marine sediments, compost, crop soil, clay & other decomposing biological materials.

✓ More PCR Results

PCR inhibitors are removed so your PCR reactions are more reliable.

✓ More User Friendly

Simultaneous, robust homogenization of 192 samples in 10 minutes with a user-friendly, labor-saving protocol.

MO BIO
Laboratories, Inc.
Saving You Time for Life

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1-800-606-6246



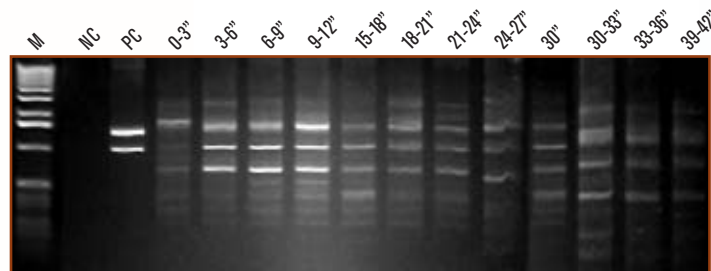
The PowerSoil™-htp 96 Well

Soil DNA Isolation Kit

The PowerSoil™-htp 96 well kit distinguishes itself with a NEW humic substance/brown color removal procedure. This new procedure is effective at removing PCR inhibitors from even the most difficult soil types. Tested sample types include compost, marine sediment, and manure among many others. The isolated DNA has a high level of purity allowing for more successful PCR amplification of DNA from organisms within the samples. The DNA isolated was successfully used as template DNA to amplify members of a wide range of microbial groups in soils. These include bacteria (gram positive, gram negative, and spore formers), actinomycetes, and fungi.

In the isolation process, environmental samples are added to a 96 well bead beating plate for rapid and thorough homogenization. Cell lysis occurs by a combination of mechanical and chemical methods. Humics are removed by a specialized precipitation process. Total genomic DNA is captured on a 96 well silica membrane in a spin column plate format. DNA is then washed and eluted from the membrane. The eluted DNA is ready for PCR analysis and other downstream applications.

The PowerSoil™-htp kit isolates clean DNA for reliable PCR



Samples from varying depths of urban compost were used to isolate DNA using the PowerSoil™-htp kit. PCR was performed to demonstrate successful amplification across all samples. M: Marker, NC: Negative Control, PC: Positive Control

Sample	Successful isolation
45''-48'' Urban compost	✓
Compost	✓
Pine forest base	✓
RCP amended top soil	✓
RV garden soil	✓
Farm	✓
Iowa corn field	✓
Downieville, CA	✓
Lawn	✓
Hillside soil	✓
Coffee waste	✓
Wet rotting soil	✓



Specifications

The PowerSoil™-htp 96	
Format	Silica Spin Plate
Method	Bead Beating/ Efficient inhibitor removal
Binding Capacity	Up to 20 µg DNA
Throughput	96 Samples per plate
Equipment Required	Plate centrifuge, Plate shaker, Manifold (optional)

Ordering Information

Catalog No.	Description	Quantity
12955-4	PowerSoil™-htp 96 well Isolation Kit	4 x 96 preps
12955-12	PowerSoil™-htp 96 well Isolation Kit	12 x 96 preps
12988-50	PowerSoil™ DNA Isolation Kit	50 preps
12988-100	PowerSoil™ DNA Isolation Kit	100 preps
Equipment		
11996	96 Well Plate Shaker	1 Unit
11997	UltraVac™ Manifold	1 Unit



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