E.Z.N.A.[®] Soil DNA Kit

Isolate DNA from soil & environmental samples containing humic acid and PCR inhibitors

Features and Benefits

- **Reliable:** Reproducible DNA purification from a variety of sample sources
- Quality: Ready-to-use DNA eliminating PCR inhibitors using proprietary inhibitor removal technology
- Yield: Efficient purification of DNA from even specialized samples
- Ease of Use: Contains glass beads prefilled in 2 mL vials

The E.Z.N.A.[®] Soil DNA Kit is formulated to isolate high purity cellular DNA from soil samples typically containing humic acid and other inhibitors of PCR. This kit uses a novel and proprietary method to isolate genomic DNA from a variety of environmental samples without organic extractions.

This kit has been successfully used to isolate DNA from Gram positive and negative bacteria, funai, veast and algae that inhabit a range of samples including clay, sandy, peaty, chalky or loamy soil samples. Isolated DNA can be used for most downstream applications including PCR, Southern blot and NGS analysis.

Comparison of C, Values

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	600 -				Company M					
Yield (ng)	000						1			
	500	╞								
	400									
	300	-								
	200	-								
	100									
	0									

DNA yield determined with fluorescencebased dye quantification. 50 μ L ZymoBIOMICS Microbial Community Standard was added to 200 mg soil samples and DNA was extracted using manufacturer's recommended protocols. DNA was eluted in 100 μ L for both manufacturers.



20 μ L SYBR Green qPCR reaction. 50 μ L Zymo BIOMICS Microbial Community Standard was added to 200 mg soil samples and DNA was extracted using manufacturer's recommended protocols. DNA was eluted in 100 μ L for both manufacturers.



Comparison of DNA Extraction Method From Soil Samples

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Protocol **DNA Yield by Bacterial Classes** Grind the sample in Disruptor tubes. Omega Bio-tek Company M Lyse the sample with DS Buffer. 4000 3500 3000 Precipitate inhibitors with P2 Buffer. Yield (ng) 2500 2000 1500 Remove inhibitors with HTR Reagent. 1000 500 Gram Positive Gram Negative Adjust binding conditions. Bacteria Bacteria DNA yield determined with fluorescencebased dye quantification. 0.5 mL cultured gram postive and gram negative bacteria were added Transfer to a HiBind® DNA Mini Column. to corresponding 200 mg soil samples samples and DNA was extracted using manufacturer's recommended protocols. DNA was eluted in 100 μL for both manufacturers. Wash 3x. Dry. **Price List** VWR Cat No. Part Number Preparations 101319-090 D5625-00 5



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D5625-01

D5625-02

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