

E.Z.N.A.[®] Soil DNA Kit

Isolates DNA from soil & environmental samples eliminating humic acid & PCR inhibitors

CAT NO: D5625



Disruptor Tubes

Glass beads pre-filled in 2 mL tubes



Quality

Ready-to-use DNA eliminating PCR inhibitors using proprietary inhibitor removal technology



Reliable

Reproducible DNA purification from a variety of sample sources

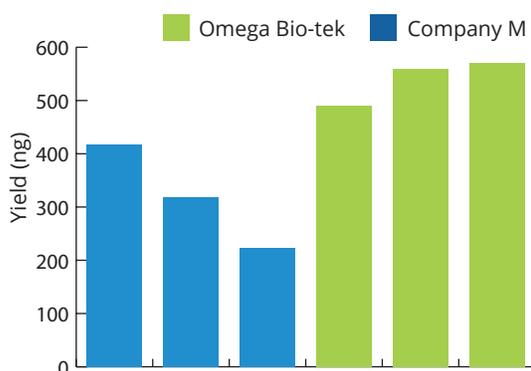


Yield

Total DNA isolation from variety of microorganisms found in soil, including bacteria, fungi, algae etc.

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, fungi, yeast, 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 DNA Extraction Method from Soil Samples

Figure 1. DNA yield determined with fluorescence-based 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.

Comparison of Ct Values

Table 1. 20 μ L SYBR[®] Green reaction. 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.

Extraction Method	1:10	1:100	Δ Ct
Company M	22.47	25.83	3.36
Company M	22.85	26.26	3.41
Company M	23.52	27.10	3.58
Company M Average	22.95		
Omega Bio-tek	22.25	25.04	2.79
Omega Bio-tek	22.04	25.82	3.78
Omega Bio-tek	22.40	26.38	3.98
Omega Bio-tek Average	22.23		
NTC	39.65		

Product Description	Preps	Cat No.
E.Z.N.A. [®] Soil DNA Kit	5	D5625-00
	50	D5625-01
	200	D5625-02

For free samples of any of our kits, visit www.omegabiotek.com



innovations in nucleic acid isolation

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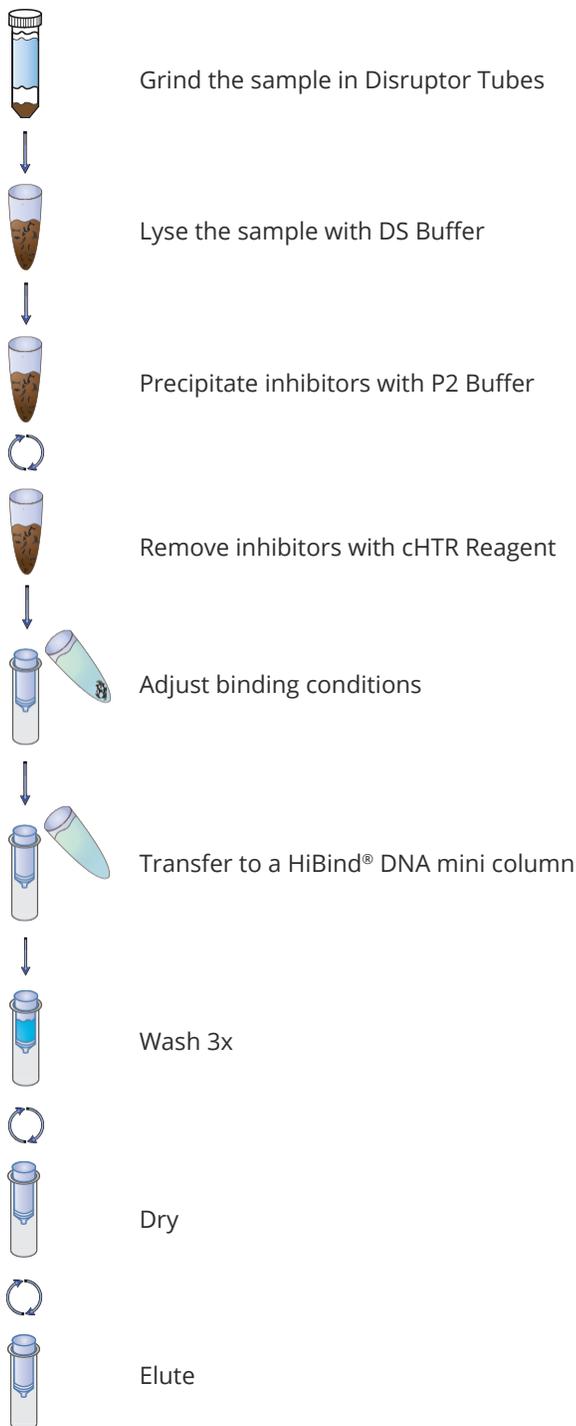
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Illustrated Protocol



DNA Yield by Bacterial Classes

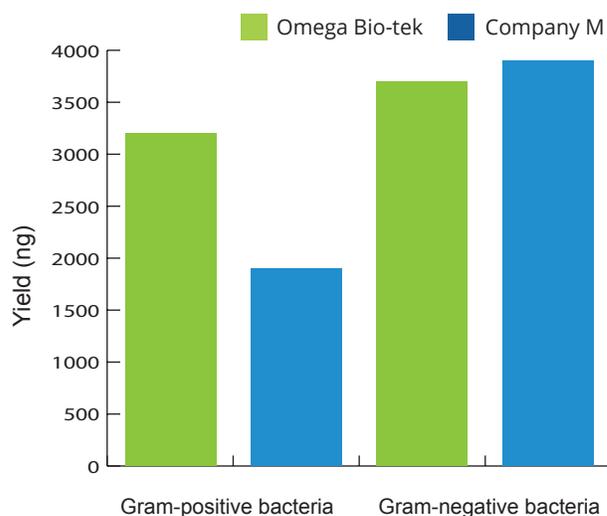


Figure 2. DNA yield determined with fluorescence-based dye quantification. 0.5 mL cultured Gram-positive and -negative bacteria were added to corresponding 200 mg soil samples and DNA was extracted using manufacturer's recommended protocols. DNA was eluted in 100 μ L for both manufacturers.