

Exgene™ Soil DNA kit

The Answer for Metagenomics

Simple, High-Performance Nucleic Acid Extraction Kit for Various Environmental Samples

Background

The field of metagenomics has displayed exponential growth in the past decade coupled with developments in sequencing technology. The resulting data has contributed to re-evaluation of past biases in phylogenetic studies, findings in evolutionary and biodiversity fields, as well as discovery of novel microbial species and their metabolites.

However, challenges still remain in sequencing genomes in soil samples mainly due to the presence of enzymatic inhibitors such as humic acids and inadequate yields of extracted nucleic acid.

GeneAll Exgene™ Soil DNA kit presents researchers with a simple, cost-effective solution - a combination of finely tuned buffer system and Powerbeads™ which optimize the balance between physical and chemical lysis for maximum yield and purity in DNA extraction.

Simplified Protocol

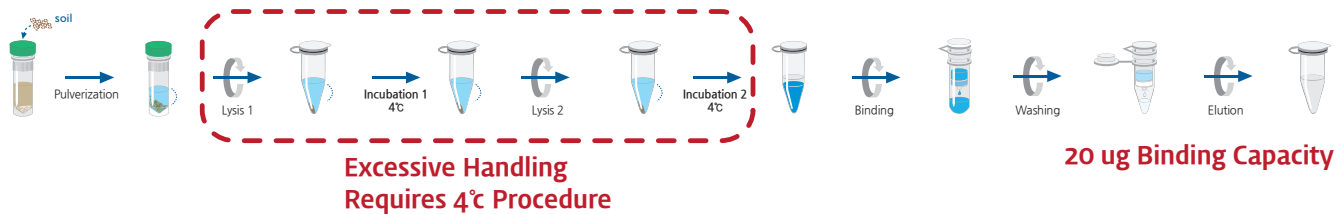
GeneAll Exgene™ Soil DNA Kit



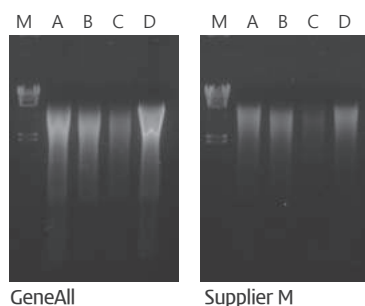
Checkpoints!

- 25 Minute Extraction
- Room Temperature Procedure
- 500 ug Binding Capacity

Supplier M



Greater Yield



GeneAll Exgene™ Soil DNA Kit			Supplier M		
	260/280	Yield (ng/ul)		260/280	Yield (ng/ul)
Sample A	1.87	90.7	Sample A	1.77	30.9
Sample B	1.83	58.6	Sample B	1.68	26.2
Sample C	1.96	23.5	Sample C	1.43	7.9
Sample D	1.88	142.5	Sample D	1.73	26.3

Average 3.3 Fold Greater

Figure 1. Total DNA Extraction from Soil Samples

Total DNA was extracted from 4 different samples using GeneAll Exgene™ Soil DNA kit and Supplier M kit. The amount of extracted nucleic acid were visualized by UV transilluminator following gel electrophoresis.