

SOIL DNA ISOLATION PLUS KIT



ISOLATE TOTAL DNA FROM ALL MICROORGANISMS

Process all types of soil, including difficult soil samples with high humic acid content

Norgen's Soil DNA Isolation Plus Kit provides a convenient and rapid method for the detection of microorganisms from soil samples. All types of soil samples can be processed with this kit, including common soil samples and difficult soil samples with high humic acid content such as compost and manure. The kit removes all traces of humic acid and PCR inhibitors using the provided the OSR (Organic Substance Removal) Solution. A simple and rapid spin column procedure is then used to further purify the DNA. Total genomic DNA can be isolated and purified from all the various microorganisms found in soil, such as bacteria, fungi and algae. The purified DNA is of the highest quality and is fully compatible with downstream PCR applications, as all humic acid substances and PCR inhibitors are removed during the isolation.

- ✓ Rapid and convenient method to detect microorganisms in soil samples
- ✓ Process any soil type including clay, topsoil, loam, sandy or any high humic acid content samples such as sediments, manure and compost
- ✓ Remove organic substances using the OSR Solution
- ✓ Remove all humic acid from DNA samples
- ✓ Fast and easy processing using a rapid spin-column format
- ✓ Isolate high quality total DNA from a variety of microorganisms including Gram-positive and Gram-negative bacteria, yeast, mold, other fungi and actinomycetes etc.

Comparison of DNA Yield

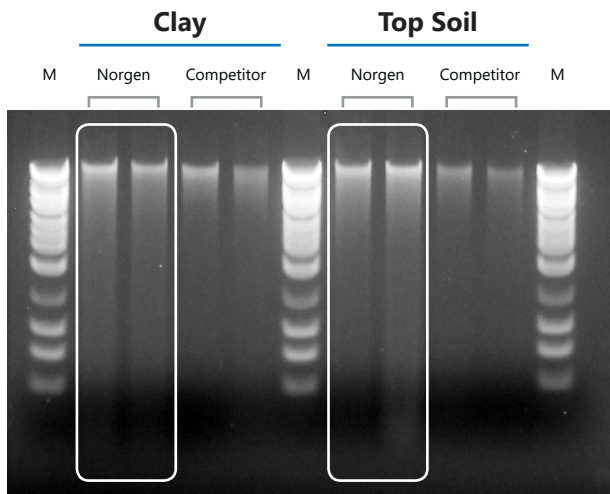


Figure 1. Comparison of DNA yield from top soil and clay samples.

DNA Concentration (ng/ μ L)

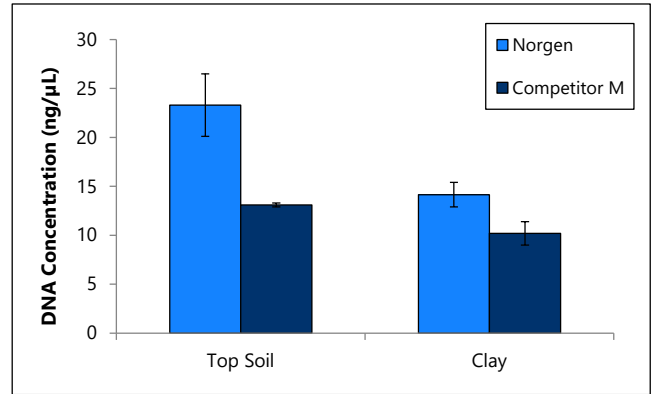


Figure 2. Comparison of DNA Concentration isolated from top soil and clay samples.

16s rRNA Detection (TaqMan)

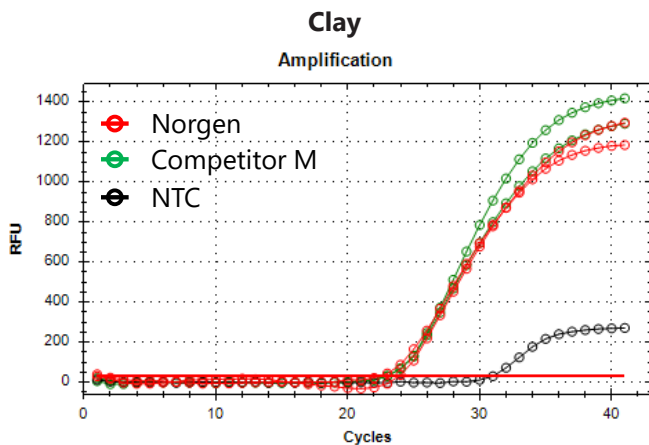
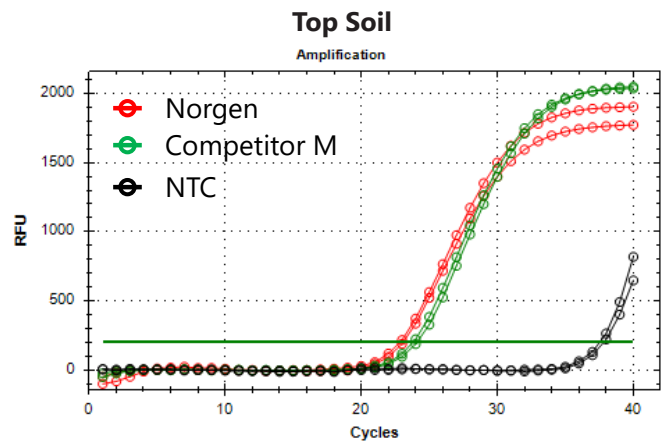


Figure 3. High quality DNA confirmed by real-time PCR.



Ordering Information

Description	Prep Size	Cat. #
Soil DNA Isolation Plus Kit	50 preps	64000

Visit our website: www.norgenbiotek.com to view our complete line of reagents and innovative sample preparation kits.



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