

Soil DNA Isolation Plus Kit

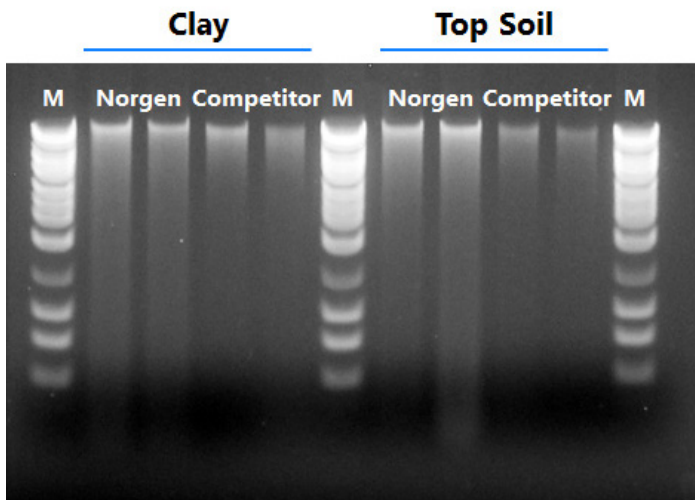
CAT. 64000

FOR THE DETECTION OF MICROORGANISMS FROM SOIL SAMPLES



- ✓ Rapid and convenient method to detect microorganisms in soil samples
- ✓ Process all soil types
- ✓ 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 bacteria, fungi and algae

Advantages You Will Bring to Your Lab



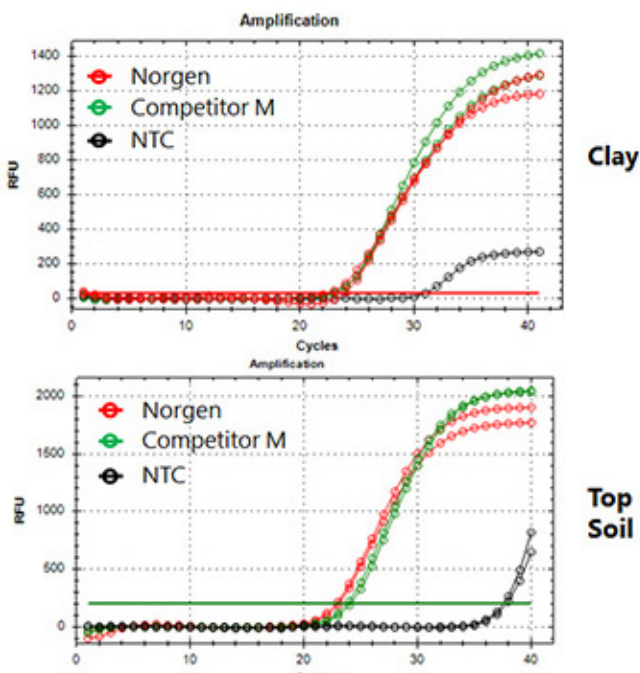
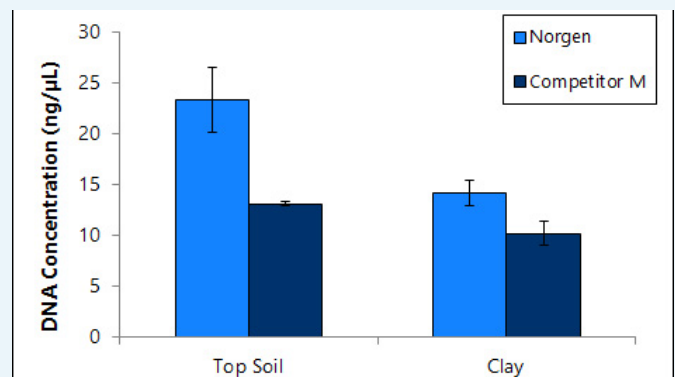
HIGHER YIELDS OF DNA THAN THE LEADING COMPETITOR

Figure 1. Comparison of DNA Yield from Top Soil and Clay Samples. Norgen's Soil DNA Isolation Plus Kit (Cat. 64000) and Competitor M's kit were used to isolate DNA from 250 mg of top soil and clay samples. Following isolation, 10 μ L from each 100 μ L elution was loaded on 1% TAE agarose gel. Lane M: Norgen's HighRanger 1kb DNA Ladder.

HIGH DNA CONCENTRATION AND QUALITY

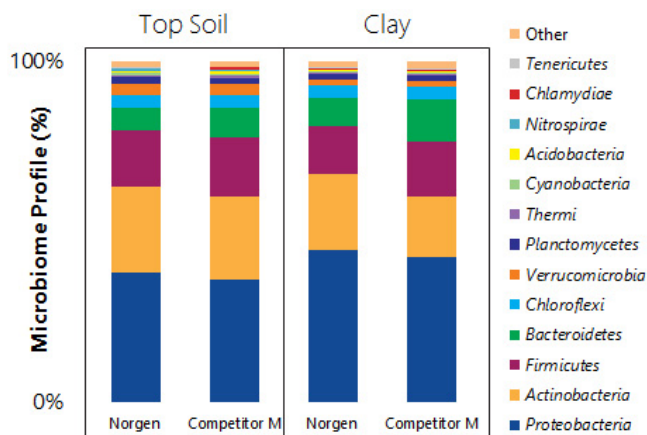
Figure 2. Comparison of DNA Concentration Isolated from Top Soil and Clay Samples.

Norgen's Soil DNA Isolation Plus Kit (Cat. 64000) and Competitor M's kit were used to isolate DNA from 250 mg top soil and clay samples. Norgen's kit showed higher DNA concentrations for both samples in comparison to the competitor kit.



HIGH QUALITY OF SOIL DNA FOR DOWNSTREAM APPLICATIONS.

Figure 3. High Quality DNA confirmed by Real-time PCR. Soil DNA was isolated from 250 mg of clay (containing low humic acids) and top soil (containing high humic acids) samples using Norgen's Soil DNA Isolation Plus Kit and Competitor M's Kit. DNA quality was confirmed by Real-time PCR using 4 μ L of soil DNA (total PCR reaction volume was 20 μ L) to detect 16s rDNA from different soil samples. The earlier Ct value with Norgen's DNA samples (red lines) compared to Competitor M's samples (green lines) indicated a higher quality of soil DNA for downstream applications.



THE RELATIVE ABUNDANCE OF PHYLUM-LEVEL CLASSIFICATIONS INDICATES THE EFFICIENCY OF DNA ISOLATION

Figure 4. Microbial profiles from soil samples (clay and top soil) isolated using Norgen’s Soil DNA Isolation Plus Kit (Cat. 64000) and Competitor M’s kit. The relative abundance of phylum-level classifications indicates the efficiency of DNA isolation and the quality of DNA. 16S rRNA genes (v3-4 region) were amplified and the amplicons were sequenced on Illumina® MiSeq™ (MiSeq Reagent Kit v3) using Norgen’s 16S Metagenomic workflow with Illumina 16S Metagenomics Pipeline (v1.0.1).

Kit Specifications

Description	Specifications
Maximum Soil Input	250 mg
Type of Soil Processed	All soil types
Maximum Column Binding Capacity	50 µg
Maximum Column Loading Volume	650 µL
Time to Complete 10 Purifications	30 minutes

* Yield will vary depending on the type of sample processed

Select Publications

Bishop, Stephanie L., et al. **“Microbial Diversity Impacts Non-Protein Amino Acid Production in Cyanobacterial Bloom Cultures Collected from Lake Winnipeg.”** *Toxins*, vol. 16, no. 4, 4, Apr. 2024, p. 169. www.mdpi.com, <https://doi.org/10.3390/toxins16040169>.

Guerrero-Sodric, Oscar, et al. **“Enhancing Bioelectrochemical Hydrogen Production from Industrial Wastewater Using Ni-Foam Cathodes in a Microbial Electrolysis Cell Pilot Plant.”** *Water Research*, vol. 256, June 2024, p. 121616. *ScienceDirect*, <https://doi.org/10.1016/j.watres.2024.121616>.

Saleem, Faizan, et al. **“eDNA Metabarcoding-Based Source Attribution of Fecal Indicator Bacteria Exceedances in Urban Freshwater Beaches, Sand and Rivers.”** *Environmental Science: Advances*, vol. 4, no. 3, 2025, pp. 456–68. pubs.rsc.org, <https://doi.org/10.1039/D4VA00221K>.

Ordering Information

Description	Preps	Cat. #
Soil DNA Isolation Plus Kit Format Plus	50 Preps	64000

Related Products

Description	Prep Size	Cat. #
Plant RNA/DNA Purification Kit	50 Preps	24400
Norgen Next Generation Sequencing Services	Call 1-866-Norgenb or Visit norgenbiotech.com	

Order Today!

Order Norgen's Soil DNA Isolation Plus Kit today to help improve your research performance and workflow.

Three ways to order

Visit norgenbiotech.com

Call at **1-866-NORGENB** or **905-227-8848**

Email at orders@norgenbiotech.com

Enhance your lab with the complete workflow solutions from Norgen.



COLLECTION & PRESERVATION



EXTRACTION



APPLICATION



For more information
SCAN HERE



norgenbiotech.com