

Soil DNA Isolation Kit (Magnetic Bead System)

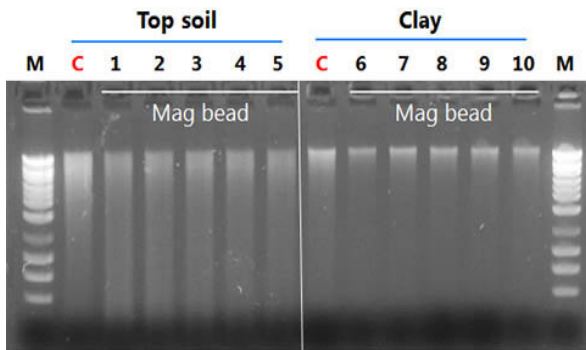
CAT. 58100, 62800

FOR ISOLATING GENOMIC DNA FROM SOIL SAMPLES



- ✓ Fast and easy processing using a magnetic bead system
- ✓ Robust lysis system (chemical lysis combined with a mechanical homogenization)
- ✓ Isolate high quality genomic DNA
- ✓ High yields - Consistent, high yields of inhibitor-free DNA up to 50 kb plus
- ✓ Isolate sequencing quality total DNA from a variety of microorganisms including bacteria, fungi and algae
- ✓ Also available in a 96-well format that can be integrated with a robotic automation system

Advantages You Will Bring to Your Lab

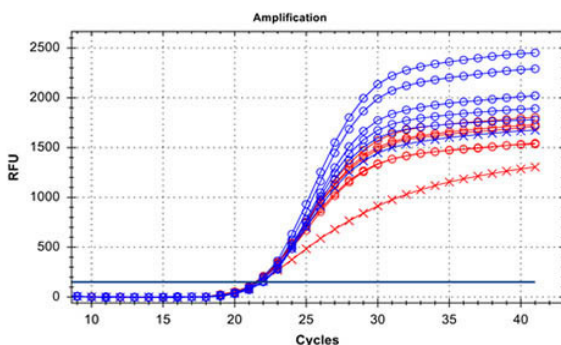
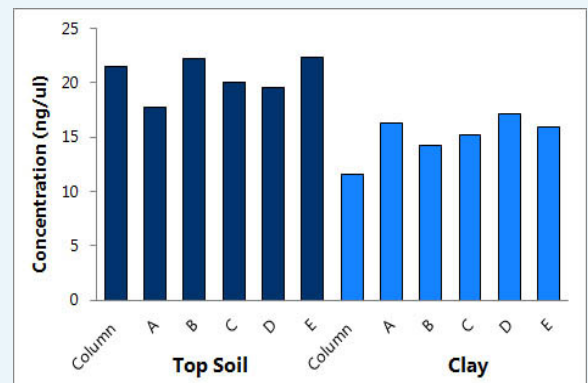


ROBUST PERFORMANCE COMPARABLE TO THE COLUMN BASED METHOD

Figure 1. Resolution of DNA isolated from two different types of soil samples. DNA was isolated from high humic acid soil (top soil) and regular soil (clay) using Norgen's column-based Soil DNA Isolation Kit (Red C) and Norgen's Soil DNA Isolation Kit (Magnetic Bead System) (Mag Bead). For evaluation, 10 μ L from the 75 μ L elution was run on 1X TAE 1.2% agarose gel. Excellent DNA integrity and yield were observed from the Soil DNA Isolation Kit (Magnetic Bead System), indicating the robust performance comparable to the column based method. Marker = Norgen's HighRanger DNA Ladder.

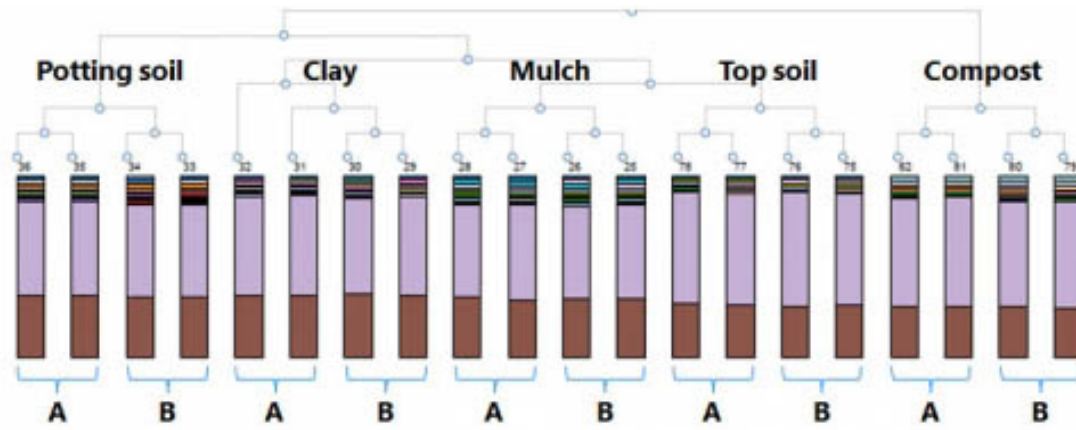
COMPARABLE DNA CONCENTRATION TO NORGEN'S SOIL DNA ISOLATION KIT (COLUMN METHOD)

Figure 2. Two of Norgen's soil DNA isolation methods (Column vs Magnetic Bead System) were compared for DNA concentration. All DNA elutions isolated using Norgen's Soil DNA Isolation Kit (Magnetic Bead System) [A to E] showed a comparable DNA concentration to Norgen's Soil DNA Isolation Kit (Column Method; Cat. 26500), indicating the consistent and robust performance of the Soil DNA Isolation Kit (Magnetic Bead System).



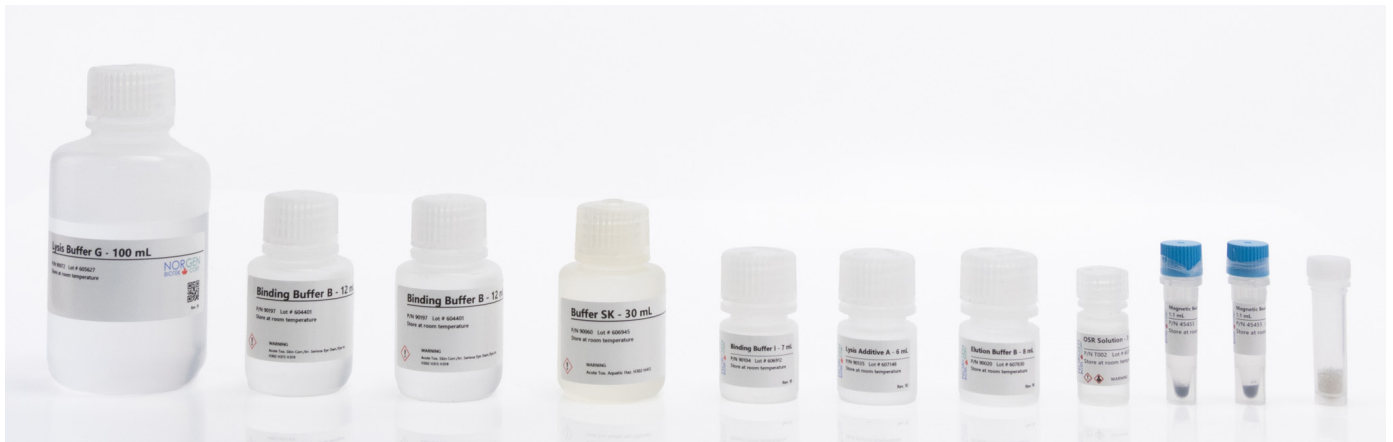
EXCELLENT SOIL DNA QUALITY

Figure 3. High soil DNA quality was confirmed by real-time PCR using 8 μ L of soil DNA (total PCR reaction volume was 20 μ L) isolated using Norgen's Soil DNA Isolation Kit (Magnetic Bead System) to detect 16s rDNA. PCR results from Norgen's Soil DNA Isolation Kit (Magnetic Bead System) (circle) were comparable to Norgen's column based Soil DNA Isolation Kit (cross) and showed the successful 16s rDNA detection without PCR inhibition, indicating the excellent soil DNA quality using Norgen's Soil DNA Isolation Kit (Magnetic Bead System).



HIGHER YIELDS OF DNA THAN THE LEADING COMPETITOR

Figure 4. Hierarchical Clustering Dendrogram. High quality of soil DNA was successfully isolated from the 5 challenging soil types using Norgen's Soil DNA Isolation Kits (A: Soil DNA Isolation Kit (Magnetic Bead System) and B: Soil DNA Isolation Kit Spin Column) respectively. The Hierarchical Clustering Dendrogram is based on genus-level classifications and shows the relative abundance of its genus-level classifications among soil types.



Kit Specifications

Description	Specifications
Maximum Soil Input	0.25 g
Type of Soil Processed	All types of soil
Average Yield from 0.25 mL of Soil*	1 - 5 µg
Average Purity (OD260/280)	1.7 - 1.8
Time to Complete 10 Purifications	40 minutes (Cat. 58100) 50 minutes (Cat. 62800)

* Average DNA yields will vary depending upon soil sample types

Select Publication

Li, Peng, et al. "Mechanism of Microbial Action of the Inoculated Nitrogen-Fixing Bacterium for Growth Promotion and Yield Enhancement in Rice (*Oryza Sativa L.*)" *Advanced Biotechnology*, vol. 2, no. 4, Sept. 2024, p. 32. Springer Link, <https://doi.org/10.1007/s44307-024-00038-4>.

Ordering Information

Description	Preps	Cat. #
Soil DNA Isolation Kit (Magnetic Bead System)	50 Preps	58100
Soil DNA Isolation Kit (High Throughput Magnetic Bead System)	2 x 96-Well Plates	62800

Related Products

Description	Prep Size	Cat. #
Stool DNA Isolation Kits	50 Preps	27600
Stool Nucleic Acid Collection and Preservation Tubes	50 Tubes	45660
Norgen Next Generation Sequencing Services	Call 1-866-Norgenb or Visit norgenbiotek.com	

Order Today!

Order Norgen's Soil DNA Isolation Kit (Magnetic Bead System) today to help improve your research performance and workflow.

Three ways to order

Visit norgenbiotek.com

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

Email at orders@norgenbiotek.com

Enhance your lab with the complete workflow solutions from Norgen.



COLLECTION & PRESERVATION



EXTRACTION



APPLICATION



For more information
SCAN HERE



norgenbiotek.com