

Soil DNA Isolation Maxi Kit

CAT. 62000

FOR THE DETECTION OF MICROORGANISMS FROM LARGE SOIL SAMPLES

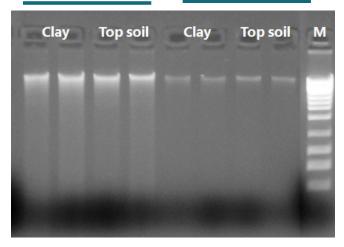


- Rapid and convenient method to detect microorganisms in up to 10 g of soil samples
- ✓ Process all soil types
- ☑ Efficiently remove organic substances using the OSR Solution
- Remove all humic acid from DNA samples using the Maxi Humic Acid Removal Columns
- ▼ Fast and easy processing using a rapid 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

1ST ELUTION 2ND ELUTION

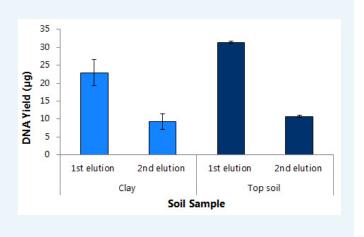


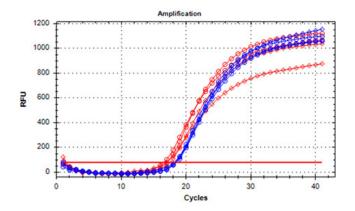
EXCELLENT DNA INTEGRITY AND YIELD

Figure 1. Resolution of DNA isolated from 10 g of two different soil types; regular soil (clay) and high humic acid soil (top soil) using Norgen's Soil DNA Isolation Maxi Kit. For evaluation, 10 µL from the 1st elution (2 mL) and 2nd elution (2 mL) from each soil sample was run on 1X TAE 1.2% agarose gel. Excellent DNA integrity and yield were observed from the Soil DNA Isolation Maxi Kit. Marker = Norgen's HighRanger DNA Ladder (Cat. 11900)

INCREASED THE TOTAL DNA YIELD BY AN ADDITIONAL 20-30%.

Figure 2. Difference in DNA yield between two soil types (clay and top soil) and elutions (1st and 2nd elution). Ten grams of soil was processed using Norgen's Soil DNA Isolation Maxi Kit. The second elution increased the total DNA yield by an additional 20-30%.





EXCELLENT SOIL DNA QUALITY FROM 10 GRAMS OF SOIL

Figure 3. High soil DNA quality was confirmed by real-time PCR using 8 µL of soil DNA (total PCR reaction volume was 20 µL) isolated using Norgen's Soil DNA Isolation Maxi Kit to detect 16s rDNA. The 16s rRNA gene was successfully amplified in both the first elution (red) and second elution (blue) from two soil types (Clay = circle, Top soil = diamond) without PCR inhibition, indicating the excellent soil DNA quality from 10 grams of soil.







Photo: Components of Kit

Kit Specifications

Description	Specifications
Maximum Soil Input	10 g
Type of Soil Processed	All soil types
Maximum Column Binding Capacity	1.5 mg
Average Yield from 10 g of soil*	30-50 μg
Time to Complete 10 Purifications	30 minutes

^{*} Average yields will vary depending upon soil sample types

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Select Publications

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.

Lopez, Mark Louie D., et al. "Reconstructing Historical Fish Occurrence and Documenting Human-Mediated Introductions in Lakes Using Sedimentary DNA." Global Ecology and Conservation, vol. 54, Oct. 2024, p. e03040. ScienceDirect, https://doi.org/10.1016/j.gecco.2024.e03040.

Sharma, Pooja, et al. "Plant Growth Enhancement under Combined Amendments of Food Waste Digestate and Rhizosphere Microbial Co-Occurrence." ACS Sustainable Resource Management, vol. 1, no. 3, Mar. 2024, pp. 563–76. ACS Publications, https://doi.org/10.1021/acssusresmgt.4c00051.

Ordering Information

Description	Preps	Cat. #
Soil DNA Isolation Maxi Kit	10 Preps	62000

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Related Products

Description		Prep Size	Cat. #
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