

NucleoSpin® Soil

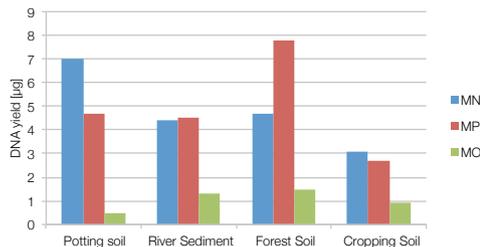
- Approved inhibitor removal technology for efficient removal of PCR inhibitors (like humic acids in soil samples)
- Lysis is supported by mechanical disruption with ceramic beads

Product at a glance

Technology	Silica-membrane technology combined with Bead Tubes Type A
Sample material	< 500 mg soil, sludge, or sediment
Fragment size	50 bp–approx. 50 kbp
Typical yield	2–10 µg (500 mg soil)
A ₂₆₀ /A ₂₈₀	1.6–1.8
Elution volume	30–100 µL
Preparation time	90 min/10 preps
Binding capacity	50 µg

Application data

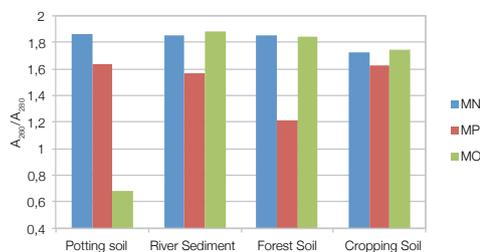
A



Excellent DNA recovery and quality tested for various soil samples

DNA was isolated from different soil samples using the NucleoSpin® Soil kit and two competitor products according to manufacturers' protocols. The ratio of absorbance at 260 nm and 280 nm was calculated to assess purity of the isolated DNA. High yields of DNA were isolated from all samples with the NucleoSpin® Soil kit (A). In addition, samples that were isolated with the NucleoSpin® Soil kit mostly reached a value of "1.8", showing a high purity of the isolated DNA (B).

B



References

Merckx et al.: Evolution of endemism on a young tropical mountain

Nature 2015; 524(7565): 347-50

„(...) Soil samples containing fungal mycelia were processed (...). Genomic DNA was extracted from 1 g of this sample using the NucleoSpin® Soil kit (Macherey-Nagel GmbH & Co., Düren, Germany), according to the manufacturer's protocol. (...)“

Wagner et al.: Effect of DNA extraction procedure, repeated extraction and ethidium monoazide (EMA)/propidium monoazide (PMA) treatment on overall DNA yield and impact on microbial fingerprints for bacteria, fungi and archaea in a reference soil

Appl Soil Ecol. 2015; 93: 56-64

„(...) By comparison of two different extraction kits, the Macherey-Nagel Soil kit resulted in the highest DNA yields when buffer SL1 and the enhancer solution were applied. (...)“

Ordering information

Product	Preps	REF
NucleoSpin® Soil	10/50/250	740780.10/50/250