EliGene® SOIL DNA Isolation Kit

DNA EXTRACTION FROM SOIL

DESCRIPTION

EliGene® Soil DNA Isolation Kit is intended for rapid extraction of genomic DNA from environmental samples utilizing our special technology for removal of inhibitors. Primary, the extraction kit is intended for use with environmental samples with high humic acid content including different soil types such as compost, black soil or manure as well as other common soil types. The isolated DNA shows high purity suitable for successful PCR amplification of organisms from the soil sample. A variety of organisms including bacteria, fungi or algae has been successfully detected from isolated samples by PCR and 16S metagenomics NGS study.

Environmental samples are homogenized in a bead beating tube by mechanical and chemical methods. In the presence of detergent, cells are lysed and proteins denatured. In the presence of chaotropic agent, DNA is bound to the spin filter, washed and eluted in TRIS-HCl buffer without EDTA. DNA is ready to be used for PCR, qPCR and sequencing.

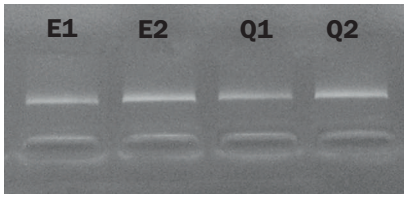

***Figure A**: Total genomic DNA was isolated from 200 mg of soil using **EliGene® Soil DNA Isolation Kit** and soil DNA extraction kit from other supplier. After isolation 10 µl from each elution was loaded on 1,5% TBE agarose gel.*
***E1, E2**: EliGene® Soil DNA Isolation Kit*
***Q1, Q2**: Competitor Q*

ADVANTAGES

- Rapid isolation in less than 1 hour
- Inhibitors removal
- Genomic DNA Extraction from environmental samples
- Processing all soil types
- Mechanical homogenization in beat beating tubes

APPLICATIONS

- End-Point PCR
- Real-Time PCR
- 16S next-generation sequencing

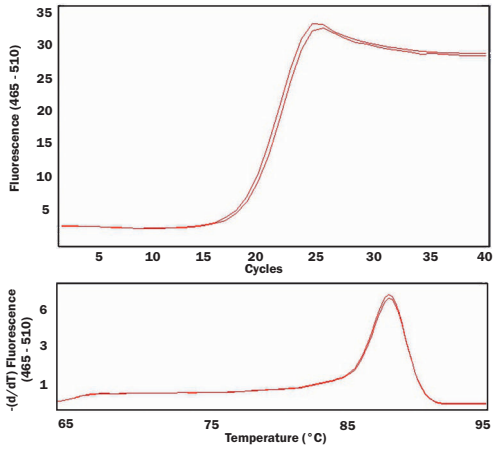

Figure A**: Amplification and melt analysis of 16S DNA from **EliGene® Soil DNA Isolation Kit** and soil DNA isoaltion kit from competitor. Real-Time PCR was performed by **EliZyme™ Green MIX AddROX

CONTACT US

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