



EliGene® Soil DNA Preservation Solution

Instructions for Use

Package:

Ref. No.	Quantity
412100PS	100 ml

Storage:

All kit reagents and components should be stored at room temperature (15-30°C). When stored under these conditions, the kit will retain full activity until the expiration date indicated on the kit label.

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Introduction

EliGene® Soil DNA Preservation Solution is intended for storage and transport of soil for DNA or RNA isolation. The solution maintains the viability of bacteria in the soil and at the same time serves as a bacteriostatic to prevent bacterial growth. Nucleic acids are not subject to degradation by DNases or RNases. Samples can be used for cDNA synthesis and 16S rRNA analysis.

Microbial communities are maintained as follows:

- 30 days at temperature – 20 °C
- 2 weeks at temperature 4 °C
- 1 week at room temperature
- RNA integrity is maintained for up to 30 days at room temperature

The kit is for scientific use only, not for diagnostic use.

Equipment Required

Centrifuge for 15 ml tubes (2 500 x g)

Vortex

Pipettes for large volumes

Kit Contents

Components	Amount
EliGene® Soil DNA Preservation Solution	100 ml

Precautions

Please wear gloves when using this product. Avoid all skin contact with kit reagents. In case of contact, wash thoroughly with water. Do not ingest. See Safety Data Sheets for emergency procedures in case of accidental ingestion or contact.



Protocol

It is highly recommended to read this information before you use the EliGene® Soil DNA Preservation Solution for the first time.

1. Add 2 - 2.5 ml of EliGene® Soil DNA Preservation Solution per gram of soil sample. In the case of collecting the soil in tubes with homogenizing beads intended for RNA isolation, add 5 ml of solution per 2 grams of soil.

Note: When working with sediment samples, use 3 ml of solution per gram of soil.

2. Vortex the solution and soil until the sample is completely homogenized. The excess volume of the solution should be in the layer above the homogenized soil.
3. Store at - 20 °C, 4 °C or room temperature. For RNA processing, centrifuge the sample at 2,500 x g for 5 min. Remove the EliGene® Soil DNA Preservation Solution.
4. If you were collecting the sample into a homogenizing tube, remove the solution after centrifugation and proceed to the next step for RNA isolation.
5. If you have kept the soil in another container, weigh the amount needed and transfer it to a 15 ml homogenizing tube or conical tube and centrifuge to remove the storage solution.

Troubleshooting Guide

Several types of soil have been tested during the development of the preservation solution. For sediment samples, a larger volume of 3: 1 should be used to dilute the storage solution.

Biomass content plays an important role in soil storage. For soils with unknown microbial culture composition and likely to exceed storage at room temperature, we recommend storing them at - 20 °C or 4 °C. These conditions should ensure that the composition of the microbial community is maintained. More than 2.5 ml of EliGene® Soil DNA Preservation Solution per gram of soil may be used. For storage or transport lasting more than 30 days, store samples at -20 °C.



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Catalog number



Batch code



Use by (last day of month)



Upper limit of temperature



Manufacturer



Contains sufficient "N" tests