

# RNA Isolation from Soil

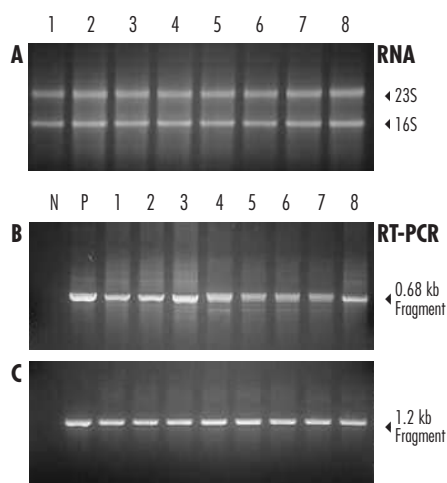
## RNA PowerSoil™ Total RNA Isolation Kit

For powerful RNA isolation from multiple soil types



### Features and Benefits

- Processes all soil types including difficult environmental samples
- Successful RT-PCR with all tested samples
- Purifies RNA from up to 2 grams of soil in less than 2.5 hours
- Yields high quality RNA free of RT-PCR inhibitors and humic substances
- Eliminates visible brown coloration



### HIGH YIELD AND RELIABLE RT-PCR RESULTS

Total RNA was isolated from 8 different soil samples (see list below) using the RNA PowerSoil™ Total RNA Isolation Kit (Lanes 1-8). Purified RNA was run (A) on a 1% TAE agarose gel (2 µg per lane). RT-PCR analysis with primers representing the *Streptomyces* spp. (B) and *Bacillus* spp. (C) was performed using 1 µl of the undiluted RNA and analyzed on a 1% TAE agarose gel and stained with ethidium bromide. N = negative control. P = positive control.

Soil samples were, Lane 1: residential lawn; Lane 2: strawberry field; Lane 3: plant root rhizosphere; Lane 4: lagoon sediment; Lane 5: amended soil; Lane 6: cornfield; Lane 7: compost; Lane 8: sandy soil

### DESCRIPTION

In less than 2.5 hours, the RNA PowerSoil™ Total RNA Isolation Kit\* provides you with a novel and proprietary (patent pending) method for isolating total RNA from up to 2 grams of soil. RT-PCR and PCR inhibiting substances, including humic substances and the brown color often associated with reverse transcription and PCR inhibition, are completely removed. While this kit is intended for use with all common soil types, it is particularly efficient for samples that contain high humic substance content such as compost, sediment and manure.

### IMPORTANT NOTE:

This kit requires the use of phenol:chloroform (not supplied).

\* Patent pending

### RELATED PRODUCTS YOU MAY NEED

PowerSoil™ DNA Isolation Kit  
PowerMax™ Soil DNA Isolation Kit  
UltraClean™ PCR Clean-Up Kit  
UltraClean™ GelSpin™ DNA Extraction Kit  
Vortex Adapters

RNA PowerSoil™ Total RNA Isolation Kit	
Catalog No.	Quantity
12866-25	25 preps