SuSpin Bacterial Fecal/Soil DNA Isolation Kit

Catalog No	Size
• NA01B100	50 preps
• NA01B101	100 preps

Description: The SuSpin Bacterial Fecal/Soil DNA Isolation Kit is designed for the simple, rapid isolation of inhibitor-free, PCR-quality and sequencing DNA from a variety environmental samples (fecal, soil, root, leaf, water, etc). The kit can be used to successfully isolate DNA from tough-to-lyse Gram-positive and Gram-negative bacteria, fungi, algae, protozoa, etc. that inhabit environmental samples. The procedure is easy and can be completed in as little as 25 minutes: environmental samples (≤200 mg each) are added directly to a Beading Tubes and rapidly and efficiently lysed by bead beating without the use of organic denaturants or proteinases. The SuSpin Bacterial Fecal/Soil DNA Isolation Kit is then used to isolate the DNA, which is subsequently filtered to remove humic acids/polyphenols that inhibit PCR. The DNA is ideal for downstream molecular-based applications including PCR, NGS, arrays, genotyping, etc.

Kit Components:

Component	Amount	Storage
Bead Tube	50-100 pcs	RT
Beading Buffer	25-50 ml	RT
Lysis Buffer	25-50 ml	RT
Wash Buffer	25-50 ml	RT
Elution Buffer	5-10 ml	RT
Spin Column	50-100 pcs	RT
Collection Tubes	50-100 pcs	RT
Instruction Manual	1 pc	RT

Storage Conditions:
Store all contents at room temperature.

Kit Protocol:

1) Add ≤ 200 mg of environmental sample (soil, root, leaf, etc) to a Bead Tubes. Add 500 µl Beading Buffer to the tube.
For environmental water samples: *Centrifuge the 15 ml-50 ml environmental water sample (4,000 x g for 10 minute). Discard the supernatant. Add 200 µl of PBS to the pellet and vortex to resuspend. Transfer all resuspended water sample (200 µl) to Bead Tubes. Add 500 µl Beading Buffer to the tube.*

2) Vortex the Bead Tubes for 15 minutes.

3) Centrifuge the Bead Tubes in a microcentrifuge at ≥ 10,000 x g for 1 minute.

4) After centrifugation, 400-500 µl of supernatant was taken into a clean tube and 500 µl of "Lysis Buffer" was added and incubated for 10 minutes at room temperature.

5) After incubation, the mixture was transferred to a Spin column and centrifuged at 10000×g for 1 minute.

6) After the liquid passing through the column was discarded, 500 µl of "Wash Buffer" was added to the silica column and centrifuged at 10000×g for 1 minute.

7) Repeat the Step 6.

8) After the liquid passing through the column was discarded, the Spin column was centrifuged empty at 15000×g for 1 minute.

9) After centrifugation, after the silica column was transferred to a clean 1.5 ml microcentrifuge tube, 50 µl of DNA Elution Buffer was added to the column matrix and centrifuged at 15000×g for 1 minute.

The obtained DNA is now suitable for PCR, NGS, arrays, genotyping, etc. applications.

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