SPINeasy DNA Kit for Soil

Cat. No.: 116530050 (50 preps) & 116530000 (5 preps)

Quick-Start Protocol

Revision 1.0 (May 2020)

Notes before starting:

- ☐ Add 35 mL (3.5 mL for sample kit) absolute ethanol to Binding Buffer S and mark on the bottle.
- ☐ Add 50 mL (5 mL for sample kit) absolute ethanol to Wash Buffer S and mark on the bottle.
- ☐ Prepare 100x2.0mL (10x2.0mL for sample kit) microcentrifuge tubes.
- ☐ Vortex the sample at full speed for 10 min if a FastPrep® Instrument is unavailable. Secure samples on the vortex through an adapter to ensure homogenization.
- ☐ Centrifugation speed stated in the manual will be a guideline, use the maximum speed available if 14,000 x g is not feasible.

Lyse

1. Add 100–500 mg soil sample to **Lysing Matrix E** tube.
2. Add 980 µL **Lysis Buffer S1**, 120 µL **Lysis Buffer S2** and 10 µL **RNase A Solution** to sample, vortex to mix.
3. Homogenize in a FastPrep Instrument for 20 seconds at speed setting of 6.0 m/s.
4. Centrifuge at 14,000 x g for 5 min.

Purify

5. Carefully transfer the supernatant to a clean 2.0 mL microcentrifuge tube (self–provided).
6. Add 250 µL **Inhibitor Removal S** to the transferred supernatant and shake 10 times to mix.
7. Centrifuge at 14,000 x g for 10 min.
8. Transfer 900 µL supernatant to a clean 2.0 mL microcentrifuge tube (self–provided).

Bind

9. Add 900 µL of **Binding Buffer S** to the transferred supernatant.
10. Transfer 800 µL of mixture to **Column S1** placed on top of a **2.0 mL Collection Tube** (provided).
11. Centrifuge at 14,000 x g for 1 min. Empty collection tube and reuse. Repeat the process once and discard remaining mixture.

Wash

12. Add 500 µL of **Wash Buffer S** to the column. Centrifuge at 14,000 x g for 1 min. Empty collection tube and reuse. Repeat the washing step.
13. Without addition of any liquid, centrifuge at 14,000 x g for 2 min to dry the column.

Dry

14. Discard collection tube and place the column into a **1.5 mL Collection Tube** (provided).
15. Air dry the column for 5 min at room temperature.

Elute

16. Heat **DES Buffer** to 55 ℃ using a water bath while waiting.
17. Add 100 µL of pre–heated **DES Buffer** to the center of column.
18. Centrifuge at 14,000 x g for 1 min to elute DNA.
19. Eluted DNA is now ready for downstream applications. Store at –20 ℃ for extended periods or 4 ℃ until use.

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Most advanced sample preparation instrument

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Order Information

Product	Cat. No.
FastPrep-24™ 5G Instrument Including 24 x 2 mL samples adapter	116005500
FastPrep-24™ Instrument Including 24 x 2 mL samples adapter	116004500
FastPrep™ -96 Instrument Including 2 x 96-well plate adapter	116010500
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