

Quick-Start Protocol

July 2022

# DNeasy<sup>®</sup> PowerMax<sup>®</sup> Soil Kit

The DNeasy PowerMax Soil Kit (cat. no. 12988-10) can be stored at room temperature (15–25°C) until the expiry date printed on the box label.

## Further information

- *DNeasy PowerMax Soil Kit Handbook*: [www.qiagen.com/HB-2259](http://www.qiagen.com/HB-2259)
- Safety Data Sheets: [www.qiagen.com/safety](http://www.qiagen.com/safety)
- Technical assistance: [support.qiagen.com](http://support.qiagen.com)

## Notes before starting

- Shake to mix Solution C4 before use.
- If Solution C1 has precipitated, heat to 60°C until precipitates dissolves.
- Please wear gloves at all times

## Procedures

1. Add 15 ml of PowerBead Solution to PowerMax Bead Pro Tube.
2. Add up to 10 g of soil sample in the PowerMax Bead Pro Tube containing PowerBead Solution. Vortex vigorously for 1 min.  
**Note:** Please refer to the Troubleshooting Guide before deciding on the amount of soil to process.
3. Add 1.2 ml of Solution C1 to the PowerMax Bead Pro Tube and vortex vigorously for 30 s.
4. Place the PowerMax Bead Pro Tube on a vortex adapter (cat. no. 13000-V1-50) and vortex for 10 min at the highest speed. Alternatively, place the tube in a shaking water bath set at 65°C and shake at maximum speed for 30 min.
5. Centrifuge at 2500 x *g* for 3 min at room temperature.
6. Transfer supernatant to a clean collection tube (provided).

**Note:** The supernatant may still contain some soil particles and color.

7. Add 5 ml of Solution C2. Invert twice to mix. Incubate at 2–8°C for 10 min.
8. Centrifuge at 2500 x *g* for 4 min at room temperature.
9. Avoiding the pellet, transfer the supernatant to a clean collection tube (provided).
10. Add 4 ml of Solution C3 and invert twice to mix. Incubate at 2–8°C for 10 min.
11. Repeat steps 8 and 9 once. Then proceed to step 12.
12. Shake to mix Solution C4. Add 30 ml of Solution C4 to supernatant and invert twice.
13. Fill an MB Spin Column with the solution from step 12.
14. Centrifuge at 2500 x *g* for 2 min at room temperature. Discard the flow-through and add second volume of supernatant to the same spin column and centrifuge again at 2500 x *g* for 2 min at room temperature. Discard the flow-through. Repeat until entire volume has been processed. This will take up to 4 total spins.
15. Add 10 ml of Solution C5 to the MB Spin Column. Centrifuge at 2500 x *g* for 3 min at room temperature. Discard the flow-through.
16. Centrifuge at 2500 x *g* for 5 min at room temperature.
17. Carefully place the MB Spin Column in a new collection tube (provided). Avoid splashing Solution C5 onto the spin filter.
18. Add 5 ml of sterile Solution C6 to the center of MB Spin Column membrane and centrifuge at 2500 x *g* for 3 min at room temperature.
19. Discard MB Spin Column. The DNA is now ready for downstream applications.

## Document Revision History

Date	Changes
07/2022	Replaced "PowerMax Bead Tube" with "PowerMax Bead Pro Tube".



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