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DNeasy® PowerPlant® Pro HTP 96 Kit

RNase A should be stored at 2–8°C. All other components of the DNeasy PowerPlant Pro HTP 96 Kit can be stored at room temperature (15–25°C) until the expiry date printed on the box label.

Further information

- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: support.qiagen.com

Notes before starting

- If Solution SL contains precipitates, heat at 37–55°C to dissolve precipitates.
- Add 106 ml of 100% ethanol (user provided) to Solution IW before starting to prepare the final wash solution. Check the box and write the date on the label.
- For each prep, add 3 μl of RNase A to PowerBead Solution before starting. For each 96 well plate, add 300 μl of RNase A to 45 ml of PowerBead Solution.
- 1. Add up to 50 mg of wet plant material (or up to 10 mg of dry material) to your chosen bead homogenization plate. Add 450 µl of RNase A/PowerBead Solution (if your sample is low in phenolics) or 410 µl of RNase A/PowerBead Solution and 40 µl of Phenolic Separation Solution (if your sample is high in phenolics).
 - **Note:** We recommend that you cut the tissue into small pieces before loading into the bead homogenization plate. For tough plants or seeds pre-grind the material with a mortar and pestle.
- 2. Add 50 µl of Solution SL to each sample. Place bead homogenization plate with mat securely fastened between 2 Adapter Plates (cat. no. 11990) and place on a TissueLyser II (cat. no. 85300). Refer to the adapter plate protocol for proper placement.
- 3. Shake at speed 20 for 8 min. Remove the plate and re-position so that the side closest to the machine body is now furthest from it, and shake again at speed 20 for 8 min.
 Note: For samples other than soft leaf tissue, optimization of bead beating settings specific to your sample type is required.
- 4. Centrifuge at 4500 x g for 9 min. Remove and discard sealing mat. Transfer supernatant to a clean 1 ml Collection Plate (supernatant may still contain particles and debris).
- Add 175 μl of Solution IR and apply Sealing Tape to plate. Vortex for 5 s.
 Note: For problematic samples, you can add up to 250 μl of Solution IR.



- 6. Incubate the 1 ml Collection Plate at 4°C for 10 min. Centrifuge at 4500 x g for 9 min. Remove and discard the Sealing Tape.
- 7. Avoiding the pellet, transfer the supernatant to a clean 2 ml Collection Plate.
- 8. Add 600 µl of Solution PB to the first row of the 2 ml Collection Plate containing the supernatant and pipet up and down to mix. Repeat for all remaining rows.
- 9. Add 600 µl of 100% ethanol (user provided) and pipette up and down to mix.
- 10. Seal any unused wells of a QIAamp 96 Plate with AirPore Tape Sheet and place the QIAamp 96 Plate onto an S-Block.
- 11. Carefully transfer half of each sample (from the 2ml Collection Plate) to the QIAamp 96 Plate. Apply AirPoreTape Sheet and centrifuge at 4500 x g for 5 min.
- 12. Repeat Step 11 until all the supernatant has been processed (two loads).
- 13. Discard the flow through from the S-Block and replace the same S-Block beneath the QIAamp 96 Plate. Discard the AirPoreTape Sheet.
- 14. Make sure that 100% ethanol has been added to the bottle containing Solution IW. Add 500 μ l of Solution IW to each well of the QIAamp 96 Plate.
- 15. Apply AirPore Tape Sheet. Centrifuge at 4500 x g for 3 min.
- 16. Add 500 μl of 100% ethanol (user provided) to each well of the Spin Plate. Apply a new piece of AirPore Tape Sheet and centrifuge for at 4500 x g for 3 min.
- 17. Discard the flow through and replace same S-Block beneath the QIAamp 96 Plate. Centrifuge at 4500 x g for 7 min.
- 18. Carefully place the QIAamp 96 Plate on an Elution Microtube Rack. Remove the AirPore Tape Sheet and discard. Air dry for 10 min at room temperature.
- 19. Add 100 µl of Solution EB to the center of the white filter membrane in the QIAamp 96 Plate wells. Apply a new piece of AirPoreTape Sheet. Incubate for 2 min at room temp.
- 20. Centrifuge at 4500 x g for 3 min. Remove and discard the AirPoreTape Sheet. If all 96 wells were utilized you can discard the entire QIAamp 96 Plate.
- 21. Seal the Elution Microtubes with the Elution Microtube Caps (provided). The DNA is now ready for downstream applications.

For up-to-date licensing information and productspecific disclaimers, see the respective QIAGEN kit handbook or user manual. Trademarks: QIAGEN®, Sample to Insight®, DNeasy®, PowerPlant® (QIAGEN Group).1104499 02/2017 HB-2221-001 © 2017 QIAGEN, all rights reserved.