QIAsymphony® PowerFecal® Pro DNA Kit

Solution CD2 should be stored at 2–8°C upon arrival. All other reagents and kit components should be stored at room temperature (15–25°C) until the expiry date printed on the box label.

Further information

- *QIAsymphony PowerFecal Pro DNA Kit Handbook*: **www.qiagen.com/HB-2677**
- Safety Data Sheets: **www.qiagen.com/safety**
- Technical assistance: **support.qiagen.com**

Notes before starting

- Ensure that the PowerBead Pro Tubes rotate freely in the centrifuge without rubbing.
- Perform all centrifugation steps at room temperature.
- Refer to the *QIAsymphony PowerFecal Pro DNA Kit Handbook* for optimal homogenization method in step 3.
- **Optional**: Set a thermomixer or shaker–incubator to 56°C for use in step 5 of the Sample Pretreatment procedure.

Sample Pretreatment

1. Spin the PowerBead Pro Tube briefly to ensure that the beads have settled at the bottom.
2. Add 50–100 mg of stool or up to 250 mg of soil and 800 µl of Solution CD1. Vortex briefly to mix.
3. Secure the PowerBead Pro Tube horizontally on a vortex adapter for 1.5–2 ml tubes (cat. no. 13000-V1-24). Vortex at maximum speed for 10 min.
   Note: If using the vortex adapter for more than 12 preps simultaneously, increase the vortex time by 5–10 min.
4. Centrifuge the PowerBead Pro Tube at 15,000 x *g* for 1 min.
5. Transfer the supernatant to a clean 2 ml microcentrifuge tube (provided).
   Note: Expect a volume of 500–600 µl. The supernatant may still contain some stool or soil particles.
   Optional: Perform the optional steps below, if RNA-free DNA is required.
   5a. Add 4 µl RNaseA and vortex shortly. Spin it down and incubate the mixture for 5 min at room temperature.
   5b. Add 30 µl Proteinase K and vortex shortly. Spin it down and incubate the mixture for 15 min at 56°C.
6. Add 300 µl Solution CD2 and vortex for 5 s.
   Centrifuge at 15,000 x *g* for 1 min at room temperature.
7. Avoiding the pellet, transfer 600 µl of supernatant to a clean 2 ml micro tube (Sarstedt® cat. no. 72.694) (not provided).

QIAsymphony SP Procedure

1. Close all drawers and the hood.
2. Switch on the QIAsymphony SP and wait until the "Sample Preparation" screen appears and the initialization procedure has finished.
3. Log in to the instrument.
4. Ensure the "Waste" drawer is prepared properly and perform an inventory scan of the "Waste" drawer, including the tip chute and liquid waste. Replace the tip disposable bag if necessary.
5. Load the required elution rack into the "Eluate" drawer.
   We recommend using slot 1 (cooling position) with Elution Microtubes CL (cat. no. 19588) or 2 ml micro tubes (Sarstedt cat. nos. 72.693 or 72.694).
6. Load the required reagent cartridge and consumables into the "Reagents and Consumables" drawer.
7. Perform an inventory scan of the "Reagents and Consumables" drawer.
8. Place the samples into the appropriate sample carrier and load them into the "Sample" drawer.
9. Using the touchscreen, enter the required information for each batch of samples to be processed.
   - 9a. Sample information depending on sample racks used e.g., 2 ml micro tube (Sarstedt cat. no. 72.694) and tube carrier
   - 9b. Protocol to be run (DNASoilStool_600_V1)
   - 9c. Elution volume and output position
10. Press the "Run" button to start the purification procedure.
11. When the protocol run is "Completed", retrieve the elution rack containing the purified nucleic acids from the "Eluate" drawer.
12. If a reagent cartridge is only partially used, seal it with the provided Reuse Seal strips immediately after the end of the protocol run to avoid evaporation.
13. Discard used sample tubes, plates, and waste according to your local safety regulations.
14. Clean the QIAsymphony SP.
15. Close the instrument drawers, and switch off the QIAsymphony SP.

Document Revision History

Date	Changes
10/2019	Initial release

Scan QR code for handbook.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.

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