OMNIgene®•GUT microbial DNA purification protocol using QIAGEN® QIAamp® PowerFecal® Pro DNA Kit

This laboratory protocol is used for the preparation of a fecal sample collected and stabilized in OMNIgene•GUT for subsequent extraction of microbial DNA using the QIAGEN QIAamp PowerFecal Pro DNA Kit.

Required reagent

1. QIAGEN QIAamp PowerFecal Pro DNA Kit (Cat No./ID 51804)

Equipment required

- Pipettors and wide-bore P1000 pipette tips (e.g., VWR 89049-160)
- Equipment listed as referenced in the PowerFecal Pro DNA Kit Instruction Manual†

Procedure

Purification steps
1. Prior to purification, shake or vortex the samples vigorously for 10 seconds.
2. Spin the PowerBead® Pro tube briefly to ensure that the beads have settled at the bottom.
3. Transfer 250 µL of the sample from the OMNIgene•GUT tube to the PowerBead Pro Tube. **Note:** Use a wide bore tip or cut the end of a regular tip to facilitate transfer.
4. Add 800 µL of Solution CD1 to the PowerBead Pro Tube. Gently vortex to mix.
5. Continue with the QIAamp PowerFecal Pro DNA Kit, starting at step 2 (bead vortexing).

† QIAamp PowerFecal PRO DNA Kit Handbook (Cat. No. 51804), Instruction Manual HB-2560-001
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