

PERFORMAbiome™•GUT microbial DNA purification protocol using QIAGEN® QIAamp® PowerFecal® DNA Kit

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

Required reagents

1. QIAGEN QIAamp PowerFecal DNA Kit (Cat No./ID 12830-50) (formerly MoBio PowerFecal DNA Isolation Kit [Cat. No. 12830-50])

Equipment required

- Wide orifice pipettor tips (e.g., VWR 89049-160)
- Equipment listed as referenced in the PowerFecal DNA Kit Instruction Manual†

Procedure

Purification steps
1. Check Solution C1. If Solution C1 has precipitated, heat solution to 60°C until dissolved before use.
2. Prior to purification, shake or vortex vigorously the samples for 10 seconds.
3. Transfer 250 µL of the sample from the PERFORMAbiome•GUT tube to the Dry Bead Tube. Note: Use a wide bore tip or cut the end of a regular tip to facilitate transfer.
4. Add 750 µL of PowerBead Solution to the Dry Bead Tube. Gently vortex to mix.
5. Add 60 µL of Solution C1 and invert several times or vortex briefly. Heat the tubes at 65°C for 10 minutes.
6. Continue with the QIAamp PowerFecal DNA Kit, starting at step 5 (bead vortexing).

Technical support is available Monday to Friday (9h00 to 17h00 ET):

- Toll-free (North America): 1.866.813.6354, option 6
- All other countries: +1.613.723.5757, option 6
- Email: support@dnagenotek.com

† QIAamp PowerFecal DNA Kit Handbook (Cat. No. 12830-50), Instruction Manual v12192013

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