

## OMNigene®•ORAL (OMR-110, OMR-120) and OMNigene®•VAGINAL (OMR-130) microbial DNA purification protocol using QIAGEN® QIAamp® PowerFecal® Pro DNA Kit

This laboratory protocol is used for the preparation of samples collected and stabilized in OMNigene®•ORAL (OMR-110, OMR-120) or OMNigene®•VAGINAL (OMR-130) for subsequent extraction of microbial DNA using the QIAGEN® QIAamp® PowerFecal® Pro DNA Kit.

### Equipment and reagents

- Lyophilized Proteinase K (PK) with minimum 30 mAU/mg activity
- Vortex adapter (e.g., QIAGEN, Cat. No. 13000-V1-24)
- QIAamp PowerFecal Pro DNA Kit (QIAGEN, Cat. no./ID: 51804)
- Equipment and reagents listed in the QIAamp PowerFecal Pro DNA Kit Handbook†
  - For the detailed extraction protocol, refer to the handbook included in the extraction kit.

### Procedure

Sample preparation steps
<p>1. Add 5 µL of PK (80 mg/mL)* to the collected sample (stabilization solution + swab) and vortex.</p> <p><i>*PK stock preparation: Prepare a solution of 80 mg/mL by dissolving lyophilized PK in nuclease-free water. Store in aliquots at -20°C.</i></p> <p><i>For PK enzyme with lower activity than 30 mAU/mg, add a minimum of 12 mAU to the collected sample.</i></p>
<p>2. Prior to purification, incubate the entire sample in the original vial at 50°C for 1 hour in a water bath or for 2 hours in an air incubator. Ensure that the swab tip is in contact with the chemistry during this step.</p> <p><b>Note:</b> Incubation may be performed any time between sample receipt and extraction. This step does not need to be repeated for extraction of subsequent aliquots.</p>
<p>3. Remove the swab and squeeze out as much of the stabilization solution as possible by pressing it on the OMNigene collection tube's inner wall. Discard swab.</p>
<p>4. Briefly centrifuge the PowerBead® Pro tube to ensure that the beads are collected at the bottom of the tube.</p>
<p>5. Mix well and transfer 250 µL of the sample from the OMNigene collection tube to the PowerBead Pro tube.</p>
<p>6. Add 800 µL of Solution CD1 and continue with the QIAamp PowerFecal Pro DNA Kit instructions, starting at step 2 (bead vortexing).</p>

### 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® Pro DNA Kit Handbook, HB-2560-003, February 2020. (www.qiagen.com)

Some DNA Genotek products may not be available in all geographic regions.

OMNigene-ORAL (OMR-110, OMR-120) and OMNigene-VAGINAL (OMR-130) are for research use only, not for use in diagnostic procedures.

\*OMNigene is a registered trademark and DNA Genotek™ is a trademark of DNA Genotek Inc. All other brands and names contained herein are the property of their respective owners.

All DNA Genotek protocols, white papers and application notes are available in the support section of our website at www.dnagenotek.com.