

OMNIGene[®]•SKIN microbial DNA purification protocol for optimal DNA yields

This laboratory protocol is used for the preparation of a microbial skin sample collected and stabilized in OMNIGene•SKIN device (OMR-140) for subsequent DNA extraction.

Required reagents

- Lyophilized Proteinase K (PK) with minimum 30 mAU/mg activity.

Proteinase K stock preparation: Prepare a stock solution of 80 mg/mL by dissolving lyophilized Proteinase K in nuclease-free water. Store in aliquots at -20°C.

Sample processing
1. Add 5 µL of PK (80 mg/mL) to the collected sample (stabilization liquid + swab) and vortex. Incubate for 1 hour in a 50°C water bath for 2 hours in a dry 50°C incubator. Ensure that the swab tip is in contact with the chemistry during this step.
2. Remove swab and squeeze out as much of the stabilization liquid as possible by pressing it on the collection tube's inner wall. Discard swab.
3. The sample is ready for DNA extraction: transfer appropriate volume of lysate to a fresh tube and proceed with the DNA extraction method of your choice.
3b. (Optional): For optimal results/yields, the entire sample (~900 µL) can be concentrated down to 250 µL after PK treatment using a SpeedVac [®] .

OPTIONAL: DNA extraction from OMNIGene[®]•SKIN samples using QIAGEN[®] QIAamp[®] PowerFecal[®] Pro DNA Kit.

Required equipment

- Vortex Adapter
- Equipment listed in the QIAGEN QIAamp PowerFecal Pro DNA Kit Handbook[†]

Purification steps
1. Transfer 250 µL* of lysate into the PowerBead Pro Tube.
2. Add 800 µL of solution CD1 and continue with the PowerFecal Pro protocol, starting at step 2 (bead vortexing). Please refer to QIAamp PowerFecal Pro DNA Kit Handbook for full protocol [†] .

*For optimal results/yields, add 250 µL of concentrated lysate from the optional step 3b (see above).

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

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[†] QIAamp PowerFecal PRO DNA Kit Handbook (Cat. No. 51804), Instruction Manual HB-2560-002

OMNIGene•SKIN (OMR-140) is for Research Use Only, not for use in diagnostic procedures.

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

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