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DNA extraction protocol for saliva samples obtained from Omigene oral OM device using the Qiagen QiaAMP Powerfecal DNA kit for shotgun metagenomic sequencing

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OPEN ACCESS



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ABSTRACT

This protocol describes the procedure for DNA extraction of saliva samples using the Omnigene OM device and the Qiagen QiaAMP Powerfecal DNA PRO kit for shotgun metagenomic sequencing.

ATTACHMENTS

[DNA_extraction_protocol_oral_samples_QIAGEN_for_shotgun_metagenomic_sequencing.pdf](#)

GUIDELINES

NA

MATERIALS

see attached document

SAFETY WARNINGS



see attached protocol

ETHICS STATEMENT

NA

DOI:

dx.doi.org/10.17504/protocols.io.eq2lyjrplx9/v1

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MANUSCRIPT CITATION:

Meslier, V.; Menozzi, E.; David, A.; Morabito, C.; Lucas Del Pozo, S.; Famechon, A.; North, J.; Quinquis, B.; Koletsi, S.; Macnaughtan, J.; et al. Evaluation of an Adapted Semi-Automated DNA Extraction for Human Salivary Shotgun Metagenomics. *Biomolecules* 2023, 13, 1505. <https://doi.org/10.3390/biom13101505>

BEFORE START INSTRUCTIONS

visit the protocols.io for saliva sampling :

<https://dx.doi.org/10.17504/protocols.io.n92ldm8qol5b/v1>

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Protocol status: Working

We use this protocol and it's working

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Salivary Collection Using OMNIgene ORAL OM 501 Device

- 1 Visit the protocols.io for saliva sampling : <https://dx.doi.org/10.17504/protocols.io.n92ldm8qol5b/v1>

Sample pre-processing

- 2 Heat the whole OMNIgene Oral OM 501 tubes into an incubator at 50 °C for 2 h.

DNA extraction QIAGEN QIAamp Power Fecal Pro

- 3 Available at <https://www.qiagen.com/>