

Purification protocols for samples collected in OMNIGENE™ SALIVA DNA and RNA (OMR-610)

OMNIGENE™ SALIVA DNA and RNA (OMR-610) purification protocol for human and bacterial nucleic acids using RNeasy® PowerMicrobiome® Kit

This laboratory protocol is used for the preparation of a saliva sample collected and stabilized in OMNIGENE™ SALIVA DNA and RNA (OMR-610) for subsequent extraction of human and bacterial nucleic acids (DNA and RNA) and viral DNA using the RNeasy® PowerMicrobiome® Kit.¹

Equipment and reagents

- RNeasy PowerMicrobiome Kit (QIAGEN®, Cat No./ID: 26000-50)
- Equipment and reagents listed as referenced in the RNeasy PowerMicrobiome Kit Handbook[†]
 - For a detailed extraction protocol, refer to the handbook included in the extraction kit.

Procedure

| Sample preparation steps |
|---|
| 1. Shake OMR-610 samples vigorously for 10 seconds once received in the lab. |
| 2. 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. Note: Incubation may be performed any time between sample receipt and extraction. This step does not need to be repeated for extraction of subsequent aliquots. |
| 3. Add 100 µL phenol-chloroform-isoamyl alcohol (pH 6.5-8.0) to the PowerBead Tube. |
| 4. Transfer 250 µL of sample into the Glass Bead Tube from the RNeasy PowerMicrobiome RNA Isolation Kit. |
| 5. Continue with the RNeasy PowerMicrobiome RNA Isolation Kit instructions, starting at step 2. |

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OMNigene•SALIVA DNA and RNA (OMR-610) purification protocol for viral RNA using MagMAX™ Viral/Pathogen Nucleic Acid Isolation Kit

This laboratory protocol is used for the preparation of a saliva sample collected and stabilized in OMNigene•SALIVA DNA and RNA (OMR-610) for subsequent extraction of viral RNA using the MagMAX™ Viral/Pathogen Nucleic Acid Isolation Kit.

Equipment and reagents

- MagMAX Viral/Pathogen Nucleic Acid Isolation Kit (Applied Biosystems™, Cat. No./ID: A42352)
- Equipment and reagents listed as referenced in the MagMAX Viral/Pathogen Nucleic Acid Isolation Kit User Guide
 - For a detailed extraction protocol, refer to the user guide included in the extraction kit.

Procedure

| Sample preparation steps |
|---|
| 1. Shake OMR-610 samples vigorously for 10 seconds once received in the lab. |
| 2. 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. Note: Incubation may be performed any time between sample receipt and extraction. This step does not need to be repeated for extraction of subsequent aliquots. |
| 3. Continue with MagMAX Viral/Pathogen Nucleic Acid Isolation Kit User Guide, starting at step 1. |

Technical support is available Monday to Friday (9:00 a.m.-5:00 p.m. ET):

- Toll-free (North America): 1.866.813.6354, option 6
- All other countries: 613.723.5757, option 6
- Email: support@dnagenotek.com

¹Formerly sold by MO BIO as PowerMicrobiome RNA Isolation Kit (26000-50)

[†]RNeasy® PowerMicrobiome® Kit Handbook, HB-2276-003, January 2020. (www.qiagen.com)

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

OMNigene•SALIVA DNA and RNA (OMR-610) is for Research Use Only, not for use in diagnostic procedures.

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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.

Not available for clinical diagnostic use in the United States.

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