The preservation and storage of microbiome samples is an important consideration for any study design. The table below summarizes recommendations for short-term handling and long-term storage of unprocessed samples collected in the various OMNiGene products offered by DNA Genotek.

<table>
<thead>
<tr>
<th>OMNiGene-GUT (OMR-200, OM-200)</th>
<th>Room temperature storage (15°C / 25°C/59°F / 77°F)</th>
<th>Freezer storage (-20°C or -80°C/-4°F or -112°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage at room temperature:</strong> Fecal samples collected in OMNiGene-GUT (OMR-200, OM-200) can be stored at room temperature for up to <strong>60 days</strong>.</td>
<td><strong>Storage at -20°C or -80°C (-4°F or -112°F):</strong> Fecal samples collected in OMNiGene-GUT (OMR-200, OM-200) can be stored in their original tube at -20°C or -80°C (-4°F or -112°F) for up to 1 year. For longer storage, OMNiGene-GUT samples should be vigorously mixed, aliquoted into cryovials and stored at -80°C (-112°F).</td>
<td><strong>Freeze-thaw cycles:</strong> OMNiGene-GUT will preserve the microbial community structure and maintain DNA integrity for up to **6 freeze-thaw cycles.**¹</td>
</tr>
<tr>
<td>IMPORTANT: Storing at 4°C (39°F) is NOT recommended for fecal samples collected in OMNiGene-GUT.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| OMNiGene-GUT DNA and RNA (OMR-205) | Storage at room temperature: Fecal samples collected in OMNiGene-GUT DNA and RNA (OMR-205) can be stored at room temperature for up to **10 days**. | Storage at -80°C (-112°F): We recommend storing fecal samples collected in OMNiGene-GUT DNA and RNA (OMR-205) in their original tube at -80°C (-112°F) as soon as possible. For long-term storage (> 6 months), we recommend extracting nucleic acids and storing your extracted samples as per your standard operating procedures. |**Freeze-thaw cycles:** OMNiGene-GUT DNA and RNA will preserve the microbial community structure and maintain RNA and DNA integrity for up to **3 freeze-thaw cycles.**¹ |
| IMPORTANT: We recommend limiting time exposure of collected samples to elevated temperatures above 37°C (98°F) since these affect the quality of the RNA. | | 

¹ Freeze-thaw cycles refer to the number of times the sample can be thawed and refrozen without significant degradation of the microbial community structure or nucleic acid integrity.
## OMNi•GENE-SALIVA for DNA and RNA (OMR-610)

### Room temperature storage
**(15°C / 25°C/59°F / 77°F)**

- **Storage at room temperature:**
  Saliva samples collected in OMNi•GENE-SALIVA DNA and RNA (OMR-610) can be stored at room temperature for up to **21 days**.

- **IMPORTANT:** Storing at 4°C (39°F) is NOT recommended for saliva samples collected in OMNi•GENE-SALIVA DNA and RNA.

### Freezer storage
**(-20°C or -80°C/-4°F or -112°F)**

- **Storage at -20°C or -80°C (-4°F or -112°F):**
  Saliva samples collected in OMNi•GENE-SALIVA DNA and RNA (OMR-610) should be incubated at 50°C (122°F) for 1 hour in a water bath or 2 hours in a dry incubator, mixed well by inversion, and extracted within 21 days prior to storage at -20°C or -80°C (-4°F or -112°F).

### Freeze-thaw cycles
OMNi•GENE-SALIVA DNA and RNA will maintain DNA AND RNA integrity for up to **3 freeze-thaw cycles**.

## OMNi•GENE-ORAL for DNA (OM-501)

### Room temperature storage

- **Storage at room temperature:**
  Saliva samples collected in OMNi•GENE-ORAL (OM-501) can be stored at room temperature for up to **1 year**.

- **IMPORTANT:** Storing at 4°C (39°F) is NOT recommended for saliva samples collected in OMNi•GENE-ORAL.

### Freezer storage
**(-20°C or -80°C/-4°F or -112°F)**

- **Storage at -20°C or -80°C (-4°F or -112°F):**
  Saliva samples collected in OMNi•GENE-ORAL (OM-501) should be incubated at 50°C (122°F) for 1 hour in a water bath or 2 hours in a dry incubator, mixed well by inversion, aliquoted into cryovials and stored at -20°C (-4°F) or -80°C (-112°F) within 1 year of collection.

### Freeze-thaw cycles
OMNi•GENE-ORAL will maintain DNA integrity for up to **3 freeze-thaw cycles**.

## OMNi•GENE-ORAL for DNA and RNA (OM-505, OME-505)

### Room temperature storage

- **Storage at room temperature:**
  Saliva samples collected in OMNi•GENE-ORAL (OM-505, OME-505) can be stored at room temperature for up to **21 days**.

- **IMPORTANT:** Storing at 4°C (39°F) is NOT recommended for saliva samples collected in OMNi•GENE-ORAL.

### Freezer storage
**(-20°C or -80°C/-4°F or -112°F)**

- **Storage at -20°C or -80°C (-4°F or -112°F):**
  Saliva samples collected in OMNi•GENE-ORAL (OM-505, OME-505) should be incubated at 50°C (122°F) for 1 hour in a water bath or 2 hours in a dry incubator, mixed well by inversion and extracted within 21 days prior to storage at -20°C or -80°C (-4°F or -112°F).

### Freeze-thaw cycles
OMNi•GENE-ORAL will maintain DNA and RNA integrity for up to **3 freeze-thaw cycles**.

*Continued on next page*
### OMNiGene•ORAL (OMR-110, OMR-120)

**Storage at room temperature:**
Samples collected in OMNiGene•ORAL (OMR-110, OMR-120) and OMNiGene•VAGINAL (OMR-130) can be stored at room temperature for up to **30 days**.

**IMPORTANT:** Storing at 4°C (39°F) is NOT recommended for samples collected in OMNiGene•ORAL or OMNiGene•VAGINAL.

**Storage at -20°C or -80°C (-4°F or -112°F):**
Samples collected in OMNiGene•ORAL (OMR-110, OMR-120) and OMNiGene•VAGINAL (OMR-130) should be treated with Proteinase K and incubated, 
\(^2\) aliquoted into cryovials and stored at -20°C or -80°C (-4°F or -112°F) within 30 days of collection.

**IMPORTANT:** Ensure samples are vortexed and the swab has been pressed against the collection tube’s inner wall to remove excess liquid prior to aliquoting or if transferring into cryovials.

**Freeze-thaw cycles:**
OMNiGene•ORAL and OMNiGene•VAGINAL will preserve the microbial community structure and maintain DNA and RNA integrity for up to **3 freeze-thaw cycles.**

### OMNiGene•VAGINAL (OMR-130)

**Storage at room temperature:**
Samples collected in OMNiGene•VAGINAL (OMR-130) can be stored at room temperature for up to **30 days**.

**IMPORTANT:** Storing at 4°C (39°F) is NOT recommended for samples collected in OMNiGene•VAGINAL.

**Storage at -20°C or -80°C (-4°F or -112°F):**
Samples collected in OMNiGene•VAGINAL (OMR-130) should be treated with Proteinase K and incubated, 
\(^2\) aliquoted into cryovials and stored at -20°C or -80°C (-4°F or -112°F) within 30 days of collection.

**IMPORTANT:** Ensure samples are vortexed and the swab has been pressed against the collection tube’s inner wall to remove excess liquid prior to aliquoting or if transferring into cryovials.

**Freeze-thaw cycles:**
OMNiGene•VAGINAL kits will preserve the microbial community structure and maintain DNA integrity for up to **3 freeze-thaw cycles.**

### OMNiGene•SKIN (OMR-140)

**Storage at room temperature:**
Samples collected in OMNiGene•SKIN (OMR-140) can be stored at room temperature for up to **30 days**.

**IMPORTANT:** Storing at 4°C (39°F) is NOT recommended for samples collected in OMNiGene•SKIN.

**Storage at -20°C or -80°C (-4°F or -112°F):**
Samples collected in OMNiGene•SKIN (OMR-140) should be treated with Proteinase K and incubated, 
\(^2\) aliquoted into cryovials and stored at -20°C or -80°C (-4°F or -112°F) within 30 days of collection.

**IMPORTANT:** Ensure samples are vortexed and the swab has been pressed against the collection tube’s inner wall to remove excess liquid prior to aliquoting or if transferring into cryovials.

**Freeze-thaw cycles:**
OMNiGene•SKIN kits will preserve the microbial community structure and maintain DNA integrity for up to **3 freeze-thaw cycles.**

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\(^1\) Freeze-thaw cycle: from -20°C to 30°C (-4°F to 86°F).

\(^2\) Add 400 μg of Proteinase K to the 1 mL sample collection tube and vortex. Incubate at 50°C for 1 hour in a water bath or 2 hours in a dry incubator. Ensure that the swab tip is immersed in the solution.

**Recommended Proteinase K:**
- Epicentre® PK (Cat. No. MPRK092) — Add 8 μL of 50 mg/mL stock.
- QIAGEN® Proteinase K (Cat. No. 19131 or 19133) — Add 20 μL of 20 mg/mL stock.
- Roche Proteinase K (Cat. No. 3115887001, 3115828001 or 3115844001) — Add 22 μL of 18 mg/mL stock.

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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

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