OMNIgene™

Storage recommendations for samples collected using OMNIgene™ products from DNA Genotek™

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.

	Room temperature storage (15°C – 25°C/59°F – 77°F)	Freezer storage (-20°C or -80°C/-4°F or -112°F)
OMNIgene™•GUT (OMR-200, OM-200) 	**Storage at room temperature:** Fecal samples collected in OMNIgene™•GUT (OMR-200, OM-200) devices can be stored at room temperature for up to **60 days**. **IMPORTANT:** Storing at 4°C (39°F) is NOT recommended for fecal samples collected in OMNIgene™•GUT devices.	**Storage at -20°C or -80°C (-4°F or -112°F):** Fecal samples collected in OMNIgene™•GUT (OMR-200, OM-200) devices 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). **Freeze-thaw cycles:** OMNIgene™•GUT devices will preserve the microbial community structure and maintain DNA integrity for up to **6 freeze-thaw cycles**.[1]
	Room temperature storage (15°C – 30°C/59°F – 86°F)	**Freezer storage (-20°C or -80°C/-4°F or -112°F)**
OMNIgene™•GUT DNA and RNA (OMR-205) 	**Storage at room temperature:** Fecal samples collected in OMNIgene™•GUT DNA and RNA (OMR-205) devices can be stored at room temperature for up to **10 days**. **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.	**Storage at -80°C (-112°F):** We recommend storing fecal samples collected in OMNIgene™•GUT DNA and RNA (OMR-205) devices 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 device will preserve the microbial community structure and maintain RNA and DNA integrity for up to **3 freeze-thaw cycles**.[1]

Continued on next page

	Room temperature storage (15°C – 25°C/59°F – 77°F)	Freezer storage (-20°C or -80°C/-4°F or -112°F)
OMNIgene™•SALIVA for DNA and RNA (OMR-610) 	**Storage at room temperature:** Saliva samples collected in OMNIgene™•SALIVA DNA and RNA (OMR-610) devices 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 OMNIgene™•SALIVA DNA and RNA devices.	**Storage at -20°C or -80°C (-4°F or -112°F):** Saliva samples collected in OMNIgene™•SALIVA DNA and RNA (OMR-610) devices 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:** OMNIgene™•SALIVA DNA and RNA devices will maintain DNA AND RNA integrity for up to **3 freeze-thaw cycles**.[1]
OMNIgene™•ORAL for DNA (OM-501) 	**Storage at room temperature:** Saliva samples collected in OMNIgene™•ORAL (OM-501) devices 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 OMNIgene™•ORAL devices.	**Storage at -20°C or -80°C (-4°F or -112°F):** Saliva samples collected in OMNIgene™•ORAL (OM-501) devices 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:** OMNIgene™•ORAL devices will maintain DNA integrity for up to **3 freeze-thaw cycles**.[1]
OMNIgene™•ORAL for DNA and RNA (OM-505, OME-505) 	**Storage at room temperature:** Saliva samples collected in OMNIgene™•ORAL (OM-505, OME-505) devices 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 OMNIgene™•ORAL devices.	**Storage at -20°C or -80°C (-4°F or -112°F):** Saliva samples collected in OMNIgene™•ORAL (OM-505, OME-505) devices 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:** OMNIgene™•ORAL devices will maintain DNA and RNA integrity for up to **3 freeze-thaw cycles**.[1]

Continued on next page

OMNIgene™

	Room temperature storage (15°C – 25°C/59°F – 77°F)	Freezer storage (-20°C or -80°C/-4°F or -112°F)
OMNIgene™•ORAL (OMR-110, OMR-120) **OMNIgene™•VAGINAL** (OMR-130) 	**Storage at room temperature:** Samples collected in OMNIgene™•ORAL (OMR-110, OMR-120) and OMNIgene™•VAGINAL (OMR-130) devices 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 devices.	**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) devices 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 devices will preserve the microbial community structure and maintain DNA and RNA integrity for up to **3 freeze-thaw cycles**.[1]
OMNIgene™•SKIN (OMR-140) 	**Storage at room temperature:** Samples collected in OMNIgene™•SKIN (OMR-140) devices 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 devices.	**Storage at -20°C or -80°C (-4°F or -112°F):** Samples collected in OMNIgene™•SKIN (OMR-140) devices 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 device kits will preserve the microbial community structure and maintain DNA integrity for up to **3 freeze-thaw cycles**.[1]

[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:

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

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

PD-PR-1036 v6/2024-12