OMNIgene®·ORAL

DNA and RNA from oral samples for
molecular microbiology and microbiome

Optimized solutions for sample collection, nucleic acid stabilization and microbial profile snapshot

The oral cavity contains defined niches colonized by distinct microbial communities. The interaction between these communities and their relationship with the host is essential for oral health. The analysis of microbial DNA and RNA using Next Generation Sequencing enables the study of the phylogenetic and functional diversity of the microbial communities found in the oral cavity.

- **Easy self-collection of high quality nucleic acids from oral samples**
- **Stabilize DNA and RNA at room temperature for up to 4 weeks – no cold chain transportation and handling required**
- **Ensure microbial profile accurately represents the *in vivo* profile**
- **High quality nucleic acids suitable for molecular downstream applications (i.e., PCR, RT-qPCR, microarray, NGS)**

Collection devices *Ideal samples for microbiome research*		
For gums and plaque (OMR-110)	For tongue (OMR-120)	For saliva (OM-501 and OM-505)
		

For more information contact info@dnagenotek.com

For Research Use Only
Not for use in diagnostic procedures

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DNAgenotek™

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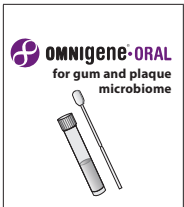
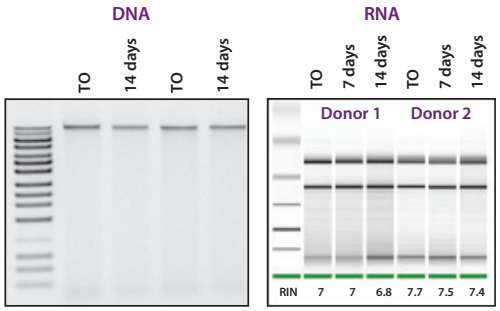
Benefits

- Collect microbial nucleic acids from one oral sample
- Minimize bias introduced by microbial growth and nucleic acid degradation
- Maintain DNA and RNA integrity during typical ambient temperature fluctuations (e.g., -20°C to 30°C)
- Minimize noise in your data analysis with reliable microbiota profile

Attribute	OMR-110	OMR-120	OM-501 OM-505
			
Collection site	Gums and plaque	Tongue	Saliva
High quality nucleic acids	DNA & RNA	DNA & RNA	DNA DNA & RNA
Microbiome profile stability at room temperature	4 weeks	4 weeks	1 year[1] 3 weeks [2,3]
Eliminate cold chain shipping	✓	✓	✓
Standardized format for high throughput processing	✓	✓	✓
Number of extractions per kit	2	2	8
Suitable for NGS downstream applications	✓	✓	✓

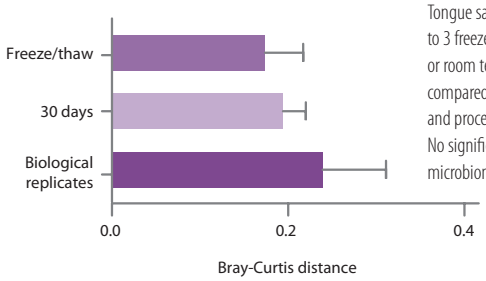
[1] Collect superior samples for molecular detection of microbial DNA. DNA Genotek. PD-BR-00053.
[2] OMNIgene•ORAL stabilizes microbial DNA profiles in oral fluid samples, enables more precise characterization of oral flora. DNA Genotek. MK-00090.
[3] All-in-one system for the collection and rapid stabilization of microbial nucleic acids. DNA Genotek. PD-BR-00057.

Superior nucleic acid stability



High molecular weight DNA (left) and RNA (right) from tongue samples stabilized at room temperature for 14 days.

Microbiome snapshot



Tongue samples from 20 donors exposed to 3 freeze/thaw cycles (-20 to 30°C, top) or room temperature for 30 days (middle) compared with 2 samples collected and processed immediately (bottom). No significant differences in the microbiome profile were observed.

Superior samples • Proven performance

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