# **Proven performance** for microbiome research



# Saliva

Room temperature stabilization of high quality DNA and RNA for microbiome profiling

## Gums and plaque

Tongue

Improved sample capture and release Provide a snapshot of the microbial

profile at time of collection

# **Global leaders**, trusted partners

# **DNAGENOTEK**



### *"Stabilization of biological samples is crucial for accurate analysis* of microbiome data and for comparison across studies ...

the [OMNIgene®•GUT] collection device ... provides a robust, reproducible workflow that enables standardized global collection, storage, and analysis of stool for microbiome studies."<sup>6</sup> Ericka Anderson, Human Longevity Inc.

### Quality and regulatory compliance



ISO 9001 / 13485

Collect superior samples for molecular detection of microbial DNA. DNA Genotek<sup>™</sup>. PD-BR-00053. OMNIgene+ORAL stabilizes microbial DNA profiles in oral fluid samples, enables more precise characterization of oral flora. DNA Genotek, MK-00090 r the collection and rapid stabilization of microbial nucleic acids. DNA Genotek. PD-BR-0005 OMNIgene-GUT stabilizes the microbiome profile at ambient temperature for 60 days and during transport. DNA Genotek. PD-WP-00042. OMNIgene+GUT enables reliable collection of high quality fecal samples for gut microbiome studies. DNA Genotek. WP-00040. Anderson EL et al. (2016). A robust ambient temperature collection and stabilization strategy Enabling worldwide functional studies of the human microbiome, Sci Rep, 6(31731)

DNA Genotek Inc. 3000 - 500 Palladium Drive Ottawa, ON, Canada K2V 1C2

# **OMNIGENE**•GUT

**Optimal self-collection** of stool samples at home

Standardized sample input is ideal for efficient laboratory processing

# **OMNIGENE**·VAGINAL

Safe self-collection of vaginal samples

Validated user instructions for increased compliance

Validated in 5,000+ peer-reviewed publications

> Adopted by 17,000+researchers and clinicians worldwide

# **MICROBIOME Powering discovery together**



CLIA/CAP

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# **ACCELERATE YOUR DISCOVERY**

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# **Snapshot the microbiome**

## Maintain DNA integrity



Ensure high quality samples and an accurate representation of the microbial community

- Sample stabilization eliminates bias introduced by microbial overgrowth and decay
- High quality samples facilitate accurate data interpretation and accelerate research translation
- Eliminate costs associated with temperature controlled shipping

Quantification of the impact of pre-analytical factors ome profile differences observed within sequencing and extra technical replicates, sample homogenization, between extraction methods (3 different kits), post-transportation (temp. fluctuation between -8°C and +23°C, instabilized and OMNIgene •GUT) and donor to donor differences (cor

## **Optimized microbiome collection**





# omnigene

### **Devices to collect, stabilize and transport**

- ✓ Maximize donor compliance
- ✓ Standardize sample collection
- ✓ Stabilize microbial nucleic acids at ambient temperature
- ✓ Snapshot the *in vivo* microbial profile
- ✓ Compatible with high-throughput processing
- ✓ Suitable for NGS downstream applications

	<b>S</b> omnigene <sup>‡</sup> oral <sup>‡</sup>	G omnigene: oral*	G omnigene-oral*	G omnigene: Gut	• OMNIGENE: VAGINAL
	A A A A A A A A A A A A A A A A A A A				
Attribute	OM-501	OMR-110	OMR-120	OM-200	- OMR-130
	OM-505			OMR-200	
Collection site	Saliva	Gums and plaque	Tongue	Stool	Vagina
High quality nucleic acids	DNA	DNA & RNA	DNA & RNA	DNA	DNA & RNA
	DNA & RNA				
Microbiome profile stability at room temperature	1 year <sup>1</sup>	4 weeks	4 weeks	8 weeks <sup>4</sup>	4 weeks
	3 weeks <sup>2,3</sup>				
Eliminate cold chain shipping	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~
Standardized format for high throughput processing	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Number of extractions per kit	8	2	2	8 <sup>5</sup>	2
Suitable for NGS downstream applications	$\checkmark$	$\checkmark$	$\checkmark$	✓ <sup>5</sup>	$\checkmark$



🚱 омнigene

🕝 omnigene

### Services to accelerate your discovery

- **High-resolution, scalable shotgun metagenomics** deep and shallow coverage •
- World-leading 16S sequencing detect more species and reduce bias
- **18S rRNA and ITS sequencing** microbial isolates or complex samples
- Genome sequencing of bacterial and viral isolates De novo genome assemblies
- Viral metagenomics sequencing characterization of virus species of all genome types
- **q-PCR assay development** quantify a species or strain in a complex sample
- Absolute quantification absolute abundance and bacterial load profiling

### PRECISE. CONTROLLED. SCALABLE. **EXPERT MICROBIOME ANALYSIS**

### Leverage our expertise in custom solutions

- Multi-sample configurations
- Additional collection accessories
- Product and packaging customizations

