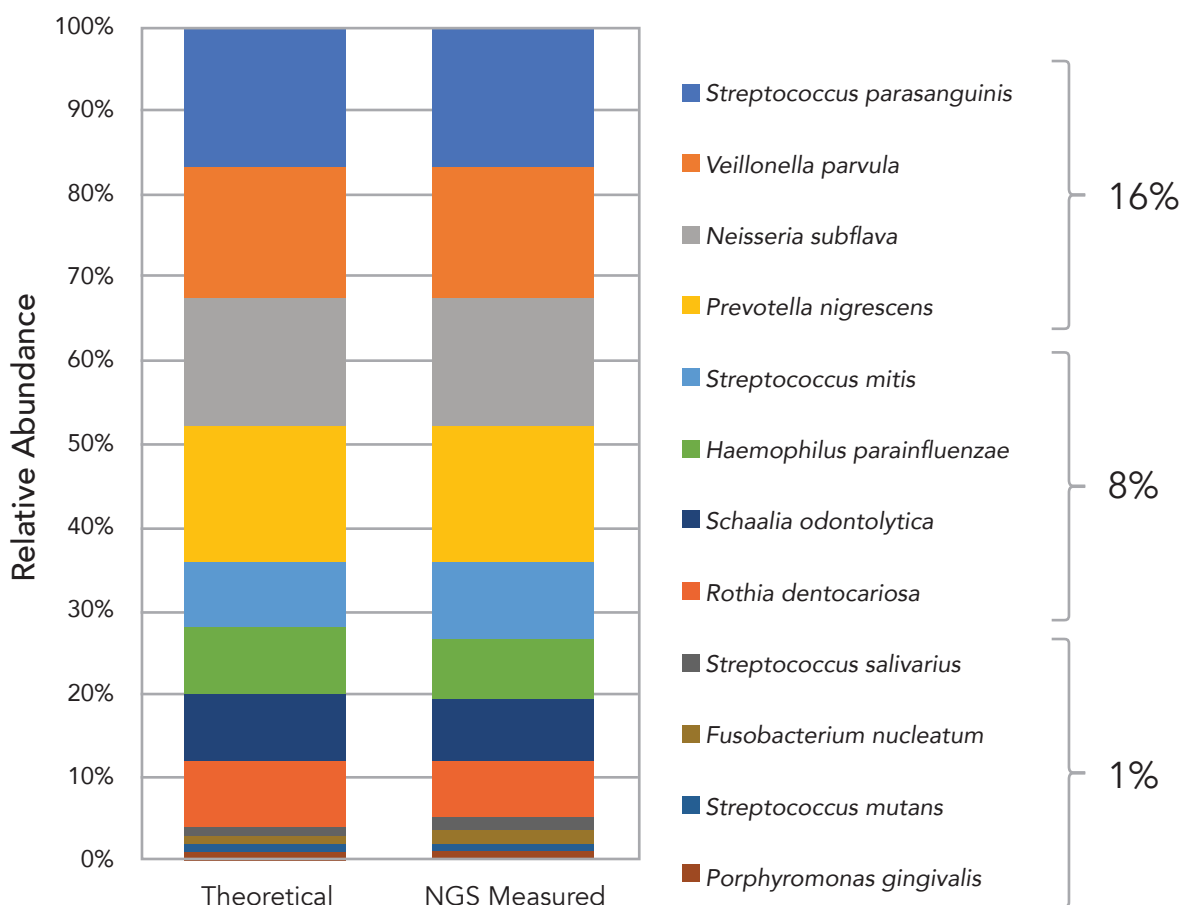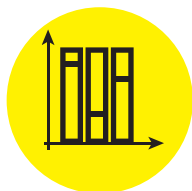# Optimize Oral Microbiome Profiling, with Precision

Introducing the new **ZymoBIOMICS® Oral Microbiome Standard**

Eliminate Bias in Your Workflow

Use the ZymoBIOMICS® Oral Microbiome Standard to assess potential biases in your workflow, with 10 carefully selected oral microbiome-specific microorganisms, designed to challenge every facet of your NGS workflow.

Relative Abundance — Theoretical / NGS Measured

16%
- *Streptococcus parasanguinis*
- *Veillonella parvula*
- *Neisseria subflava*
- *Prevotella nigrescens*

8%
- *Streptococcus mitis*
- *Haemophilus parainfluenzae*
- *Schaalia odontolytica*
- *Rothia dentocariosa*

1%
- *Streptococcus salivarius*
- *Fusobacterium nucleatum*
- *Streptococcus mutans*
- *Porphyromonas gingivalis*

Figure 1. The ZymoBIOMICS® Oral Microbiome Standard is accurately quantified to closely match the theoretical profile by shotgun metagenomic analysis.

10 commensal and 2 pathogenic oral bacteria, in staggered abundance
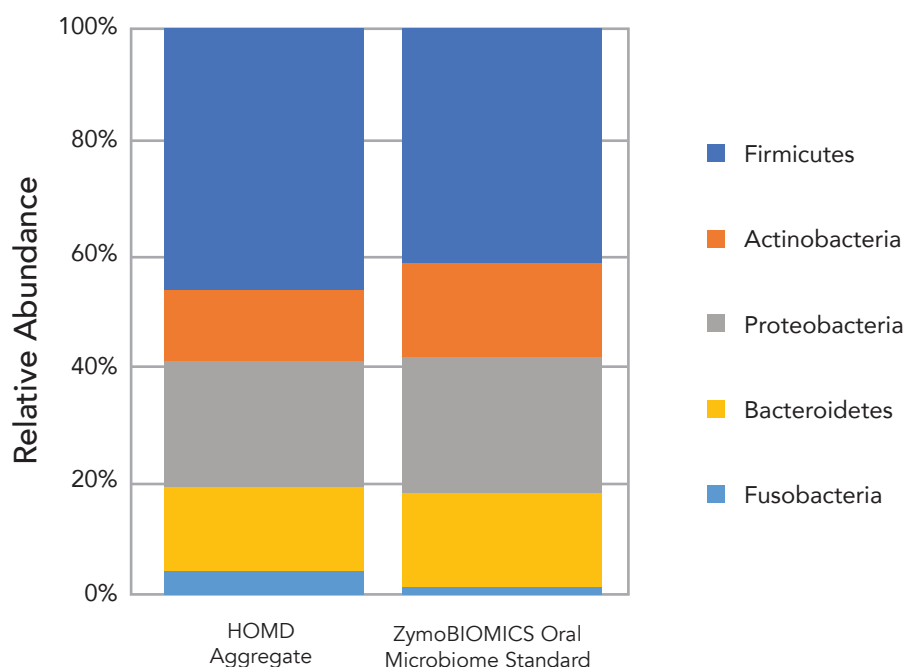
G/C content ranging from 27% - 64%, to challenge amplification bias

4x *Streptococcus* species to challenge species-level identification

True-to-Life Comparison

Designed using data from real, human oral microbiome samples to emulate a representative oral microbiome profile, as compared to the Human Oral Microbiome Database (HOMD).

Legend:
- Firmicutes
- Actinobacteria
- Proteobacteria
- Bacteroidetes
- Fusobacteria

Bar chart: Relative Abundance (0%–100%) comparing HOMD Aggregate and ZymoBIOMICS Oral Microbiome Standard.

#1 Cited for a Reason

ZymoBIOMICS® standards offer several key advantages over competitors' standards.

Features	ZymoBIOMICS® Oral Microbiome Standard	Supplier A
Abundance Variation	< 15%	< 100%
Foreign Contaminants	< 0.01%	< 10%
Strict Manufacturing QC	✓	✗
BioSafety Level	Non-hazardous	BSL-2 Required
Cells per mL	1.3×10^9	1.2×10^8

Scan the QR code to purchase now, or request a FREE sample!

Product	Cat. No	Size
ZymoBIOMICS® Oral Microbiome Standard	D6332	10 preps

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