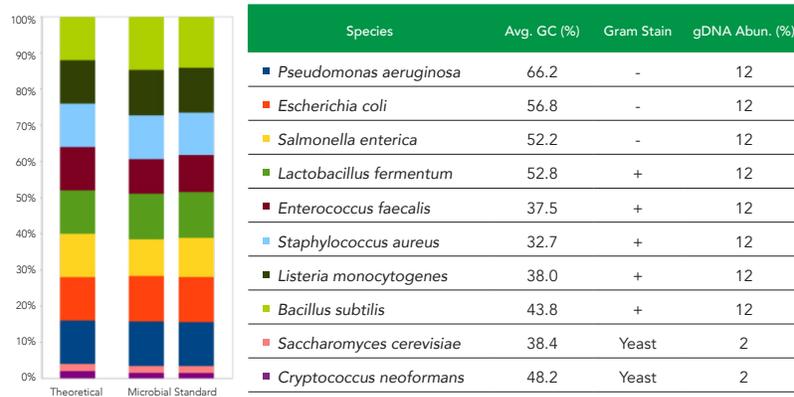


Precise Microbiome Standards

ZymoBIOMICS® Microbial Community Standard

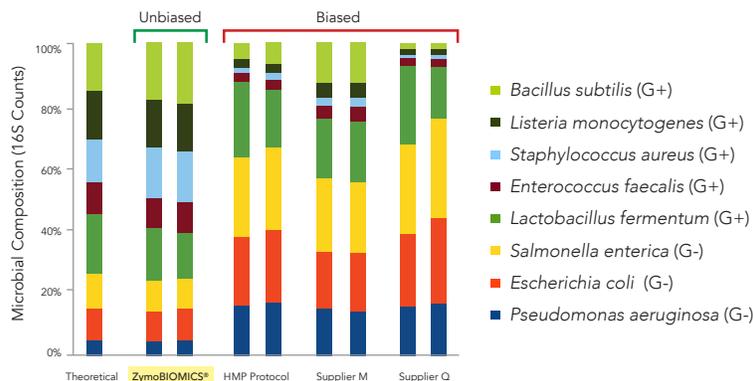
- **Microbiome Standard:** Mock microbial community of well-defined composition.
- **Identify Bias:** Contains both tough-to-lyse and easy-to-lyse organisms.
- **Accurate Characterization:** Ideal for validation, optimization, and quality control of complete microbiome workflows.

Defined Microbial Community



The ZymoBIOMICS® Microbial Community Standard contains three easy-to-lyse bacteria, five tough-to-lyse bacteria, and two tough-to-lyse yeasts.

Identify and Eliminate Bias



The ZymoBIOMICS® Microbial Community Standard was used to compare different DNA extraction protocols. DNA samples were profiled by 16S rRNA gene targeted sequencing.

Product	Cat. No.	Size
ZymoBIOMICS® Microbial Community Standard	D6300	10 preps

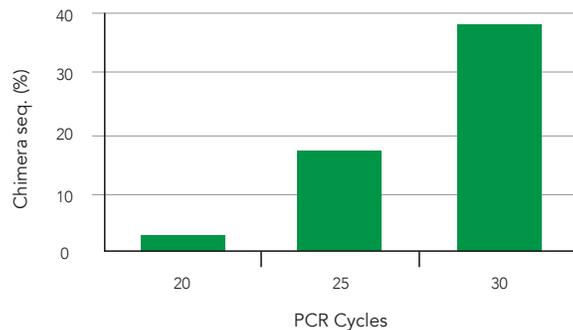


Precise Microbiome Controls

ZymoBIOMICS® Microbial Community DNA Standard

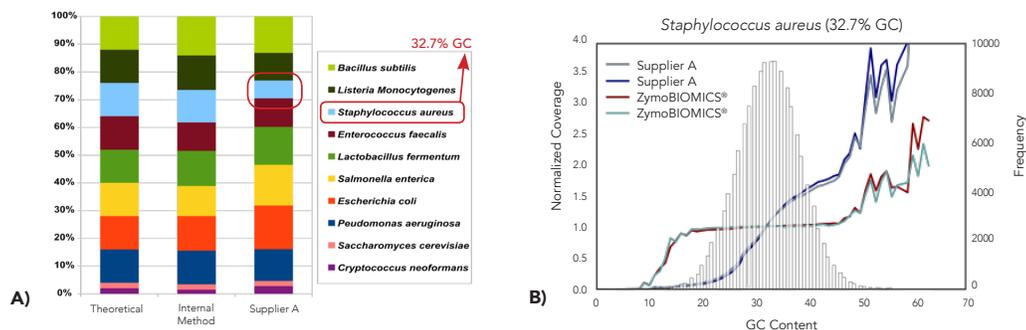
- **Microbiome DNA Standard:** Eight bacteria and two yeast genomes.
- **Identify Bias in Library Prep Methods:** The DNA has a wide GC range of 15% - 85%.
- **Accurate Composition:** Ideal for validation, optimization, and quality control of microbiome workflows.

Address & Reduce PCR Chimera



The occurrence of PCR chimera increases with the number of PCR cycles during 16S library preparation. The ZymoBIOMICS® Microbial Community DNA Standard can be used as a positive control to optimize the number of cycles needed in a prep.

Assess GC Bias



Assess GC bias in library preparations. **A)** Compared to the ZymoBIOMICS® services, Supplier A's shotgun metagenomic sequencing was biased due to GC content variation. **B)** Coverage of the 10 microbial genomes was normalized to evaluate the effects of GC content.

Product	Cat. No.	Size
ZymoBIOMICS® Microbial Community DNA Standard	D6305 D6306	200 ng 2,000 ng

